

**Safety Data Sheet**

according to UK REACH Regulation

vdw 850plus 2K-Fugenmörtel selbstverdichtend Komp.B

Revision date: 22.02.2022

Product code: 285

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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

Jointfiller for pavement surfaces

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Gesellschaft für technische Kunststoffe mbH	
Street:	Kottenforstweg 3	
Place:	D-53359 Rheinbach-Flerzheim	
Telephone:	+49(0)2225 9157-0	
e-mail:	mail@gftk-info.de	
Contact person:	Labor	Telephone: +49(0)2225 9157-27
Internet:	www.gftk-info.de	

1.4. Emergency telephone number:Informationszentrale gegen Vergiftungen, 53113 Bonn, Fon: +49.(0)228/19240
Fax: +49.(0)228/287-33314**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H302
Skin Corr. 1A; H314
Eye Dam. 1; H318
Skin Sens. 1; H317
Repr. 2; H361f
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

2,2,4-Trimethylhexane-1,6-diamine
4-tert-butylphenol
Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylenehexamine
carbomonocyclic alkylated mixture of poly-aza-alkanes hydrogenated
1,3-Benzenedimethanamine
3-aminomethyl-3,5,5-trimethylcyclohexylamine
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether polymer
Decanedioic acid, compounds with 1,3-benzenedimethanamine-bisphenol A-bisphenol A diglycidyl ether-diethylenetriamine glycidyl Ph ether reaction product epichlorohydrin-formaldehyde-propylene oxide-triethylenetetramine polymer
Phenol, styrenated
3-aminopropyl-diethylamine; N,N-diethyl-1,3-diaminopropane
2,2'-iminodiethylamine; diethylenetriamine

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Signal word: Danger**Pictograms:****Hazard statements**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see instructions on this label).

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**



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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
25513-64-8	2,2,4-Trimethylhexane-1,6-diamine			15 - < 20 %
	247-063-2		01-2119560598-25	
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317			
98-54-4	4-tert-butylphenol			10 - < 15 %
	202-679-0	604-090-00-8	01-2119489419-21	
	Repr. 2, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 1; H361f H315 H318 H410			
100-51-6	benzyl alcohol			10 - < 15 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4; H332 H302			
68915-81-1	Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylenehexamine			5 - < 10 %
	639-495-9			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
1173092-74-4	carbomonocyclic alkylated mixture of poly-aza-alkanes hydrogenated			5 - < 10 %
	630-554-4			
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H314 H318 H317 H400 H411			
1477-55-0	1,3-Benzenedimethanamine			5 - < 10 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H332 H302 H314 H318 H317 H412			
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether			1 - < 5 %
	282-199-6		01-2120762088-49	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H317 H400 H410			
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine			1 - < 5 %
	500-101-4		01-2119965165-33	
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H314 H318 H317 H412			
2408029-04-7	polymer			1 - < 5 %
	Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H318 H317 H412			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			1 - < 5 %
	220-666-8	612-067-00-9		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412			
260549-92-6	Decanedioic acid, compounds with 1,3-benzenedimethanamine-bisphenol A-bisphenol A diglycidyl ether-diethylenetriamine glycidyl Ph ether reaction product epichlorohydrin-formaldehyde-propylene oxide-triethylenetetramine polymer			1 - < 5 %
	Eye Dam. 1; H318			
90530-20-4	Trimethylhexamethylenediamine, cyanethylated			1 - < 5 %
	292-059-6		01-2120773937-35	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 2; H302 H314 H318 H411			
61788-44-1	Phenol, styrenated			1 - < 5 %



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	262-975-0		01-2119980970-27	
	Skin Irrit. 2, Skin Sens. 1A, Aquatic Chronic 2; H315 H317 H411			
104-78-9	3-aminopropyl-diethylamine; N,N-diethyl-1,3-diaminopropane			< 1 %
	203-236-4	612-062-00-1		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1; H226 H312 H302 H314 H318 H317			
111-40-0	2,2'-iminodiethylamine; diethylenetriamine			< 1 %
	203-865-4	612-058-00-X	01-2119473793-27	
	Acute Tox. 2, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, STOT SE 3; H330 H312 H302 H314 H318 H317 H335			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
25513-64-8	247-063-2	2,2,4-Trimethylhexane-1,6-diamine	15 - < 20 %
		oral: LD50 = 910 mg/kg	
98-54-4	202-679-0	4-tert-butylphenol	10 - < 15 %
		dermal: LD50 = 2290 mg/kg; oral: LD50 = 2950 mg/kg M chron.; H410: M=1	
100-51-6	202-859-9	benzyl alcohol	10 - < 15 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 1230 mg/kg	
1173092-74-4	630-554-4	carbomonocyclic alkylated mixture of poly-aza-alkanes hydrogenated	5 - < 10 %
		oral: ATE = 500 mg/kg	
1477-55-0	216-032-5	1,3-Benzenedimethanamine	5 - < 10 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg	
84144-79-6	282-199-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether	1 - < 5 %
		oral: ATE = 500 mg/kg	
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1 - < 5 %
		dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg	
260549-92-6		Decanedioic acid, compounds with 1,3-benzenedimethanamine-bisphenol A-bisphenol A diglycidyl ether-diethylenetriamine glycidyl Ph ether reaction product epichlorohydrin-formaldehyde-propylene oxide-triethylenetetramine polymer	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
90530-20-4	292-059-6	Trimethylhexamethylenediamine, cyanethylated	1 - < 5 %
		oral: LD50 = 640 mg/kg	
61788-44-1	262-975-0	Phenol, styrenated	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
104-78-9	203-236-4	3-aminopropyl-diethylamine; N,N-diethyl-1,3-diaminopropane	< 1 %
		dermal: LD50 = 615 mg/kg; oral: LD50 = 550 mg/kg	
111-40-0	203-865-4	2,2'-iminodiethylamine; diethylenetriamine	< 1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 1045 mg/kg; oral: LD50 = 1553 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

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Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Jointfiller for pavement surfaces

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-40-0	2,2'-Iminodi(ethylamine)	1	4.3		TWA (8 h)	WEL



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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
98-54-4	4-tert-butylphenol			
Worker DNEL, long-term		inhalation		0,5 mg/m ³
Worker DNEL, long-term		dermal		0,071 mg/kg bw/day
Consumer DNEL, long-term		inhalation		0,9 mg/m ³
Consumer DNEL, long-term		dermal		0,026 mg/kg bw/day
Consumer DNEL, long-term		oral		0,026 mg/kg bw/day
100-51-6	benzyl alcohol			
Worker DNEL, long-term		dermal		9,5 mg/kg bw/day
Worker DNEL, long-term		inhalation		22 mg/m ³
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether			
Worker DNEL, long-term		inhalation	systemic	2,35 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,66 mg/kg bw/day
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Worker DNEL, long-term		inhalation	systemic	0,493 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	0,074 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,14 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,05 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,05 mg/kg bw/day
61788-44-1	Phenol, styrenated			
Worker DNEL,		dermal		2,1 mg/kg bw/day
Worker DNEL,		inhalation		7,4 mg/m ³
111-40-0	2,2'-iminodiethylamine; diethylenetriamine			
Worker DNEL, long-term		dermal	local	1,1 mg/cm ²
Consumer DNEL, long-term		inhalation	systemic	4,6 mg/m ³
Worker DNEL, long-term		inhalation	local	0,87 mg/m ³
Worker DNEL, long-term		inhalation	systemic	15,4 mg/m ³
Consumer DNEL, long-term		dermal	systemic	4,88 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	27,5 mg/m ³
Worker DNEL, acute		inhalation	local	2,6 mg/m ³
Worker DNEL, long-term		dermal	systemic	11,4 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	92,1 mg/m ³



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PNEC values

CAS No	Substance	Value
Environmental compartment		
25513-64-8	2,2,4-Trimethylhexane-1,6-diamine	
Freshwater		0,102 mg/l
Freshwater (intermittent releases)		0,315 mg/l
Marine water		0,0102 mg/l
Freshwater sediment		0,622 mg/kg
Marine sediment		0,062 mg/kg
Micro-organisms in sewage treatment plants (STP)		72 mg/l
Soil		10 mg/kg
98-54-4	4-tert-butylphenol	
Freshwater		0,01 mg/l
Freshwater (intermittent releases)		0,048 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,27 mg/kg
Marine sediment		0,027 mg/kg
100-51-6	benzyl alcohol	
Freshwater		1 mg/l
Marine water		0,,1 mg/l
1477-55-0	1,3-Benzenedimethanamine	
Freshwater		0,094 mg/l
Freshwater (intermittent releases)		0,152 mg/l
Marine water		0,0094 mg/l
Freshwater sediment		12,4 mg/kg
Marine sediment		1,24 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		2,44 mg/kg
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether	
Freshwater		0,00017 mg/l
Marine water		0,000017 mg/l
Freshwater sediment		0,524 mg/kg
Marine sediment		0,0524 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,66 mg/l
Soil		0,524 mg/l
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Freshwater		0,011 mg/l
Freshwater (intermittent releases)		0,111 mg/l
Marine water		0,011 mg/l
Freshwater sediment		4320 mg/kg
Marine sediment		432 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l

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90530-20-4	Trimethylhexamethylenediamine, cyanethylated	
Freshwater		0,0034 mg/l
Freshwater (intermittent releases)		0,034 mg/l
Marine water		mg/l
61788-44-1	Phenol, styrenated	
Freshwater		0,03 mg/l
Marine water		0,003 mg/l
111-40-0	2,2'-iminodiethylamine; diethylenetriamine	
Freshwater		0,56 mg/l
Marine water		0,056 mg/l
Freshwater sediment		1072 mg/kg
Marine sediment		107,2 mg/kg
Micro-organisms in sewage treatment plants (STP)		6 mg/l
Soil		7,97 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow brown
Odour:	like: Amines

Test method**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	200 °C

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Flash point: 96 °C

Flammability

Solid/liquid: not applicable

Gas: not applicable

Explosive properties

The product is not: Explosive.

Auto-ignition temperature: 365 °C calculated.

Decomposition temperature: not determined

pH-Value (at 20 °C): 9,5

Viscosity / dynamic:
(at 20 °C) 700-800 mPa·sWater solubility: The study does not need to be conducted
because the substance is known to be
insoluble in water.**vdw 850 plus - Comp. B:**
*boiling point: 200 °C // Melting point/freezing point: not
determined // flash point: 96 °C // physical state: liquid //
colour: yellow brown // odour: like: Amines // the product
is not: Explosive // pH-Value (at 20°C): 9,5 // density
at 20°C: 1,01 g/cm³ // viscosity / dynamic at 20°C: ca.
700-800 mPa·s // Vapour pressure (at 20 °C): 19,95
hPa calculated***Solubility in other solvents**

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure:
(at 20 °C) 19,95 hPa calculated.Density (at 20 °C): 1,01 g/cm³

Relative vapour density: not determined

9.2. Other information**Information with regard to physical hazard classes**

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Solid content: not determined

Evaporation rate: not determined

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information



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11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1285,6 mg/kg



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25513-64-8	2,2,4-Trimethylhexane-1,6-diamine				
	oral	LD50 mg/kg	910	Rat	
98-54-4	4-tert-butylphenol				
	oral	LD50 mg/kg	2950	Rat	
	dermal	LD50 mg/kg	2290	Rabbit	
100-51-6	benzyl alcohol				
	oral	LD50 mg/kg	1230	Rat	
	dermal	LD50 mg/kg	>2000	Rabbit	
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
1173092-74-4	carbomonocyclic alkylated mixture of poly-aza-alkanes hydrogenated				
	oral	ATE mg/kg	500		
1477-55-0	1,3-Benzenedimethanamine				
	oral	ATE mg/kg	500		
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether				
	oral	ATE mg/kg	500		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	ATE mg/kg	500		
	dermal	ATE mg/kg	1100		
260549-92-6	Decanedioic acid, compounds with 1,3-benzenedimethanamine-bisphenol A-bisphenol A diglycidyl ether-diethylenetriamine glycidyl Ph ether reaction product epichlorohydrin-formaldehyde-propylene oxide-triethylenetetramine polymer				
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rabbit	
90530-20-4	Trimethylhexamethylenediamine, cyanethylated				
	oral	LD50 mg/kg	640	Ratte	
61788-44-1	Phenol, styrenated				
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rat	
104-78-9	3-aminopropyldiethylamine; N,N-diethyl-1,3-diaminopropane				

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	oral	LD50 mg/kg	550	Rat		
	dermal	LD50 mg/kg	615	Rabbit		
111-40-0	2,2'-iminodiethylamine; diethylenetriamine					
	oral	LD50 mg/kg	1553	Rat		
	dermal	LD50 mg/kg	1045	Rabbit		
	inhalation vapour	ATE	0,5 mg/l			
	inhalation dust/mist	ATE	0,05 mg/l			

Irritation and corrosivity

Causes severe skin burns and eye damage.
Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (2,2,4-Trimethylhexane-1,6-diamine; carbomonocyclic alkylated mixture of poly-aza-alkanes hydrogenated; 1,3-Benzenedimethanamine; 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine; polymer; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; Phenol, styrenated; 3-aminopropyl-diethylamine; N,N-diethyl-1,3-diaminopropane; 2,2'-iminodiethylamine; diethylenetriamine)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. (4-tert-butylphenol)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
25513-64-8	2,2,4-Trimethylhexane-1,6-diamine					
	Acute algae toxicity	ErC50 mg/l	43,5	72 h		
	Fish toxicity	NOEC	10 mg/l	30 d		
	Algae toxicity	NOEC	16 mg/l	72 d		
	Crustacea toxicity	NOEC mg/l	1,02	211 d		
100-51-6	benzyl alcohol					
	Acute fish toxicity	LC50	460 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50	640 mg/l	96 h	Scenedesmus sp.	
	Acute bacteria toxicity	(EC50 mg/l)	400	0,5 h	Pseudomonas putida	
1477-55-0	1,3-Benzenedimethanamine					
	Acute fish toxicity	LC50	75 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50	12 mg/l	72 h	Scenedesmus quadricauda	OECD 201
	Acute crustacea toxicity	EC50 mg/l	15,2	48 h	Daphnia magna	OECD 202
	Crustacea toxicity	NOEC	4,7 mg/l	21 d	Daphnia magna	
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether					
	Acute fish toxicity	LC50 mg/l	0,66	96 h		
	Acute algae toxicity	ErC50 mg/l	0,17	72 h		
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine					
	Acute fish toxicity	LL50 mg/l	70,7	96 h		
	Acute crustacea toxicity	EL50 mg/l	11,1	48 h		
90530-20-4	Trimethylhexamethylenediamine, cyanethylated					
	Acute fish toxicity	LC50	100 mg/l	96 h		
61788-44-1	Phenol, styrenated					
	Acute fish toxicity	LL50 mg/l	14,8	96 h		
	Acute crustacea toxicity	EC50	4,6 mg/l	48 h	Daphnia magna	
111-40-0	2,2'-iminodiethylamine; diethylenetriamine					
	Acute fish toxicity	LC50	430 mg/l	96 h	Poecilia reticulata (Guppy)	
	Acute algae toxicity	ErC50 mg/l	1164	72 h	Pseudokirchneriella subcapitata	
	Fish toxicity	NOEC	>10 mg/l	28 d	Gasterosteus aculeatus (Stickleback)	
	Algae toxicity	NOEC	10 mg/l	72 d	Pseudokirchneriella subcapitata	OECD 201

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	Crustacea toxicity	NOEC	5,6 mg/l	21 d	Daphnia magna (Big water flea)		
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12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
98-54-4	4-tert-butylphenol	OECD 301F	60%	28	
1477-55-0	1,3-Benzenedimethanamine	OECD 302C	22%	28	
		OECD 301B	49%	28	
111-40-0	2,2'-iminodiethylamine; diethylenetriamine	aerob (OECD 301 D)	87%	21	

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
25513-64-8	2,2,4-Trimethylhexane-1,6-diamine	-0,3
98-54-4	4-tert-butylphenol	3,0
100-51-6	benzyl alcohol	1,05
1477-55-0	1,3-Benzenedimethanamine	0,18
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether	1
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	3,6
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1,9
90530-20-4	Trimethylhexamethylenediamine, cyanethylated	0,74
61788-44-1	Phenol, styrenated	3,03
111-40-0	2,2'-iminodiethylamine; diethylenetriamine	1,3

BCF

CAS No	Chemical name	BCF	Species	Source
1477-55-0	1,3-Benzenedimethanamine	<3	Cyprinus carpio (Carp)	

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080413 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); aqueous sludges containing adhesives or sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

080499 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); wastes not otherwise specified

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (2,2,4-Trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8



Classification code:	C7
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (2,2,4-Trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8

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Classification code: C7
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
(2,2,4-Trimethylhexane-1,6-diamine; ALKYLPHENOLS, SOLID, N.O.S.)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B
Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
(2,2,4-Trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Special Provisions: A3 A803
Limited quantity Passenger: 0.5 L
Passenger LQ: Y840
Excepted quantity: E2
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: strongly corrosive.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
4-tert-butylphenol

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 11,277 % (113,899 g/l)

2004/42/EC (VOC): 31,465 % (317,798 g/l)

Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

3 - highly hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,9,11,14,15,16.

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

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MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361f	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)