

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 1 of 15

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

JMC Chassis adhesive and sealant, white 310 ml

UFI: UF8U-TYWP-XG03-08KM

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

Adhesives, sealants

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name: Johannes J. Matthies GmbH & Co. KG
Street: Hammerbrookstr. 97
Place: D-20097 Hamburg
Telephone: + 49 (0) 40 2 37 21-0
e-mail: info@matthies.de
Internet: www.matthies.de

Supplier

Company name: Larsson UK Ltd.
Street: 7 Alpha Court, Phoenix Parkway
Place: GB-NN17 5DP Corby
Telephone: + 44 1536 265633
e-mail: info@larsson.uk.com
Internet: www.larsson.uk.com

1.4. Emergency telephone number:

+ 44 1536 265633

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Resp. Sens. 1; H334

Full text of hazard statements: see SECTION 16.

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

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Signal word: Danger**Pictograms:**

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 2 of 15

Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing vapour.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P501 Dispose of contents/container to Dispose of waste according to applicable legislation..

Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.
EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
As from 24 August 2023 adequate training is required before industrial or professional use.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3. Other hazards

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Symptoms can occur only after several hours. The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

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

@1206.B120686 none

To follow: Use restriction according to REACH annex XVII, no.: 74

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

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 3 of 15

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
9002-86-2	Polyvinyl chloride			20 - 50 %
	Reaction mass of ethylbenzene and xylene			3 - 7 %
	905-588-0		01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics			1 - 5 %
	926-141-6	649-422-00-2	01-2119456620-43	
	Asp. Tox. 1; H304 EUH066			
13463-67-7	titanium dioxide (< 10µm)			0,1 - < 5 %
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			
1305-78-8	Calcium oxide			< 2,5 %
	215-138-9		01-2119475325-36	
	Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335			
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate			0,1 - < 1 %
	202-966-0	615-005-00-9	01-2119457014-47	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1B, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			< 0,1 %
	915-687-0		01-2119491304-40	
	Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410			
1330-20-7	xylene			< 0.1 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			
100-41-4	ethylbenzene			< 0.1 %
	202-849-4	601-023-00-4		
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			

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

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 4 of 15

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
	905-588-0	Reaction mass of ethylbenzene and xylene	3 - 7 %
		inhalation: LC50 = 6350 -6700 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 12126 mg/kg; oral: LD50 = 3523 - 4000 mg/kg STOT RE 2; H373: >= 10 - 100	
	926-141-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	1 - 5 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
13463-67-7	236-675-5	titanium dioxide (< 10µm)	0,1 - < 5 %
		inhalation: LC50 = > 6,8 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
1305-78-8	215-138-9	Calcium oxide	< 2,5 %
		inhalation: LC50 = > 6,04 mg/l (dusts or mists); oral: LD50 = > 2000 mg/kg	
101-68-8	202-966-0	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	0,1 - < 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 9400 mg/kg; oral: LD50 = > 2000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 Resp. Sens. 1; H334: >= 0,1 - 100 STOT SE 3; H335: >= 5 - 100	
1065336-91-5	915-687-0	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	< 0,1 %
		dermal: LD50 = 3170 mg/kg; oral: LD50 = 3230 mg/kg M acute; H400: M=1 M chron.; H410: M=1	
1330-20-7	215-535-7	xylene	< 0.1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg	
100-41-4	202-849-4	ethylbenzene	< 0.1 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	

Further Information

SVHC substance. none
@0303.B000003

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Take off contaminated clothing and wash it before reuse.

After inhalation

Provide fresh air.

If experiencing respiratory symptoms: Call a doctor.

After contact with skin

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

After ingestion

Call a physician immediately.

Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

Respiratory complaints

Cough

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 5 of 15

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

Treat symptomatically.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Foam. Extinguishing powder. Water spray jet. Carbon dioxide.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic

Hydrogen cyanide (hydrocyanic acid)

Carbon monoxide

Nitrogen oxides (NO_x)

Isocyanates

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

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**

Keep away from sources of ignition - No smoking.

Special danger of slipping by leaking/spilling product.

Provide adequate ventilation.

For non-emergency personnel

Use personal protection equipment.

For emergency responders

Use personal protection equipment.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

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

Prevent spread over a wide area (e.g. by containment or oil barriers).

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.

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****Advice on safe handling**

Use only outdoors or in a well-ventilated area.

Keep away from sources of ignition - No smoking.

Vapours may form explosive mixtures with air.

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 6 of 15

When using do not eat or drink.

Wash hands and face before breaks and after work and take a shower if necessary.

Contaminated work clothing should not be allowed out of the workplace.

Use protective skin cream before handling the product.

Take off contaminated clothing and wash it before reuse.

Further information on handling

Do not eat, drink or smoke when using this product.

Wash hands and face before breaks and after work and take a shower if necessary.

Contaminated work clothing should not be allowed out of the workplace.

Use protective skin cream before handling the product.

Take off contaminated clothing and wash it before reuse.

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

Keep/Store only in original container.

Hints on joint storage

Do not store together with: Oxidising agent

Keep away from: Water

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Store in a cool dry place.

7.3. Specific end use(s)

Klebe- und Dichtstoff

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

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1305-78-8	Calcium oxide (respirable fraction)	-	1		TWA (8 h)	WEL
		-	4		STEL (15 min)	WEL
1305-78-8	Calcium oxide	-	2		TWA (8 h)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
-	Isocyanates, all (as -NCO) Except methyl isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL
9002-86-2	Polyvinyl chloride, inhalable dust	-	10		TWA (8 h)	WEL
9002-86-2	Polyvinyl chloride, respirable dust	-	4		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 7 of 15

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
	Reaction mass of ethylbenzene and xylene			
Worker DNEL, long-term		inhalation	systemic	221 mg/m³
Worker DNEL, acute		inhalation	systemic	442 mg/m³
Worker DNEL, long-term		inhalation	local	221 mg/m³
Worker DNEL, acute		inhalation	local	442 mg/m³
Worker DNEL, long-term		dermal	systemic	212 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	260 mg/m³
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg bw/day
Consumer DNEL, acute		dermal	local	125 mg/person/day
Consumer DNEL, long-term		inhalation	local	65,3 mg/m³
Consumer DNEL, acute		inhalation	local	260 mg/m³
13463-67-7	titanium dioxide (< 10µm)			
,				
1305-78-8	Calcium oxide			
Worker DMEL, acute		inhalation	local	4 mg/m³
Worker DNEL, long-term		inhalation	local	1 mg/m³
Consumer DNEL, acute		inhalation	local	4 mg/m³
Consumer DNEL, long-term		inhalation	local	1 mg/m³
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate			
Worker DNEL, acute		inhalation	local	0,1 mg/m³
Worker DNEL, long-term		inhalation	local	0,05 mg/m³
Consumer DNEL, long-term		inhalation	local	0,025 mg/m³
Consumer DNEL, acute		inhalation	local	0,05 mg/m³
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
Worker DNEL, long-term		inhalation	systemic	0,68 mg/m³
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,05 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,17 mg/m³
Consumer DNEL, acute		dermal	systemic	0,25 mg/kg bw/day

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 8 of 15

PNEC values

CAS No	Substance	
Environmental compartment		Value
	Reaction mass of ethylbenzene and xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
13463-67-7	titanium dioxide (< 10µm)	
Freshwater		0,127 mg/l
Marine water		1 mg/l
Freshwater sediment		1000 mg/kg
Marine sediment		100 mg/kg
Secondary poisoning		1667 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		100 mg/kg
1305-78-8	Calcium oxide	
Freshwater		0,37 mg/l
Marine water		0,24 mg/l
Micro-organisms in sewage treatment plants (STP)		2,27 mg/l
Soil		817,4 mg/kg
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	
Freshwater		1 mg/l
Marine water		0,1 mg/l
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		1 mg/kg
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
Freshwater		0,002 mg/l
Marine water		0 mg/l
Freshwater sediment		1,05 mg/kg
Marine sediment		0,11 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		0,21 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.
@ES04.B001453

Protective and hygiene measures

Avoid contact with eyes. Avoid contact with skin. Do not breathe vapour/aerosol.

Eye/face protection

Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values. Combination filtering device A-P2 (short-term)

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 9 of 15

Hand protection

Recommendation:

> 0,5 mm; Butyl caoutchouc (butyl rubber), > 480 min (EN 374)

> 0,4 mm; FKM (fluoro rubber) > 480 min (EN 374)

> 0,5 mm: CR (polychloroprene, chloroprene rubber) > 480 min (EN 374)

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

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values. Combination filtering device A-P2 (short-term)

Environmental exposure controls

Do not allow to enter into surface water or drains.

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

Physical state:	pasty
Colour:	white, grey
Odour:	characteristic
Odour threshold:	not determined

	Test method
pH-Value:	not applicable
Changes in the physical state	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	137 °C
Flash point:	>= 70 °C
Flammability	ISO 10156
Solid/liquid:	not determined
Gas:	not applicable
Lower explosion limits:	0,6 g/m ³
Upper explosion limits:	8 g/m ³
Self-ignition temperature	
Solid:	>= 200 °C
Gas:	not applicable
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidising.	
Vapour pressure:	not determined
Density (at 20 °C):	1,16 g/cm ³
Water solubility:	Reacts with: Water
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 10 of 15

Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

No information available.

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. (at room temperature)

10.3. Possibility of hazardous reactions

@ES04.B001428 / Heating may cause a fire or explosion.

Reacts with: Alcohols, Amines, Acids, alkalines

Reacts with: Water Formation of: Carbon dioxide

Reacts with: Alkaline earth metal, Alkali metals

Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

SECTION 7: Handling and storage

10.5. Incompatible materials

SECTION 10: Stability and reactivity

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 11 of 15

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Reaction mass of ethylbenzene and xylene				
	oral	LD50 3523 - 4000 mg/kg	Rat	Manufacturer	
	dermal	LD50 12126 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 6350 - 6700 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			
	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 5000 mg/kg	Rabbit	Manufacturer	
13463-67-7	titanium dioxide (< 10µm)				
	oral	LD50 > 5000 mg/kg	Rat	Manufacturer	OECD 425
	dermal	LD50 > 5000 mg/kg	Rabbit	Manufacturer	OECD 402
	inhalation (4 h) dust/mist	LC50 > 6,8 mg/l	Rat	Manufacturer	
1305-78-8	Calcium oxide				
	oral	LD50 > 2000 mg/kg	Rat	Rat	OECD 425
	inhalation (4 h) dust/mist	LC50 > 6,04 mg/l	Rat	Rat	OECD 436
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate				
	oral	LD50 > 2000 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 9400 mg/kg	Rabbit	Manufacturer	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
	oral	LD50 3230 mg/kg	Rat	Manufacturer	OECD 423
	dermal	LD50 3170 mg/kg	Rat	Manufacturer	OECD 402
1330-20-7	xylene				
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	GESTIS	
	dermal	LD50 15400 mg/kg	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 12 of 15

Irritation and corrosivity

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

Sensitising effects

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

11.2. Information on other hazards**Endocrine disrupting properties**

@1206.B120686 none

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

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Reaction mass of ethylbenzene and xylene					
	Acute fish toxicity	LC50 2,6 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	OECD 203
	Acute algae toxicity	ErC50 2,2 mg/l	72 h	Selenastrum capricornutum	Manufacturer	OECD 201
13463-67-7	titanium dioxide (< 10µm)					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Pimephales promelas (fathead minnow)	Manufacturer	
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Danio rerio (zebrafish)	Manufacturer	OECD 203
	Acute algae toxicity	ErC50 > 1640 mg/l	72 h	Scenedesmus quadricauda	Manufacturer	OECD 201
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate					
	Acute fish toxicity	LC50 0,9 mg/l	96 h	Danio rerio (zebrafish)	Manufacturer	
100-41-4	ethylbenzene					
	Acute algae toxicity	ErC50 3,6 mg/l	96 h		GESTIS	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-41-4	ethylbenzene	3,15

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 13 of 15

12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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.

@1206.B120686 none

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****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 - used product

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 - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

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

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 14 of 15

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

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****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 56, Entry 74, Entry 75

2010/75/EU (VOC): <= 12 %

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

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): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information**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

Safety Data Sheet

according to UK REACH Regulation

JMC Chassis adhesive and sealant, white 310 ml

Revision date: 24.11.2021

Page 15 of 15

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

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

@1602.B016012

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

Classification	Classification procedure
Resp. Sens. 1; H334	Calculation method

Relevant H and EUH statements (number and full text)

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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