Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 21 August 2023

Version : 1.01



SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: SIGMADUR 520 BASE RAL 5003
Product code	: PMC10520009-M/2176
Product description	:
Product type	: Liquid.
Other means of identification	: Not available.
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Product use	: Industrial applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

«PPG Industries Lipetsk», LLC Russian Federation, 399071, Lipetsk region, Gryazinskij district, Kazinka village, Special Economic Zone IPT "Lipetsk", building 43. Tel.: +7 (4742) 42 30 63

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

1.4 Emergency telephone number

Supplier

Tel: 112 (General rescue service); 01 (local fire brigade); +7 (4742) 42-30-63 (PPG emergency)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

: Warning

2.2 Label elements Hazard pictograms



Signal word

English (GB)

Code	: PMC10520009-M/2176	Date of issue/Date of revision	: 21 August 2023
SIGMADU	R 520 BASE RAL 5003		

SECTION 2: Hazards identification

Hazard statements	:	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour. Wash thoroughly after handling.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P264, P501
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

ſ	<i>M</i> ixture			
3.2 Mixtures :				
Product/ingredient name	Identifiers	%	Classification	Туре
₩ydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥10 - ≤15	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #:	≥1.0 - ≤4.8	Flam. Liq. 3, H226	[1] [2]
English (GB)	United K	(ingdom (UK)		2/1

Code : PMC10520009-M/2176 SIGMADUR 520 BASE RAL 5003	Date of issue/Date of revision	: 21 August 2023	
SECTION 3: Composition/information on ingredients			

SECTION 5. Composition	in internation on ing	eulenits		
	01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7		STOT SE 3, H336	
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.67	Skin Sens. 1A, H317 Repr. 2, H361 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important symptom	is and effects, both acute and delayed
Potential acute health effects	2
Eve contact	: Causes serious eve irritation.

Eye contact: Causes serious eye irritation.Inhalation: May cause respiratory irritation.

English (
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Code : PMC10 SIGMADUR 520 BASE	0520009-M/2176 E RAL 5003	Date of issue/Date of revision	: 21 August 2023
SECTION 4: Firs	st aid measures		
Skin contact	: Causes skin	irritation. Defatting to the skin. May cause	an allergic skin reaction.
Ingestion	: No known si	ignificant effects or critical hazards.	
Over-exposure signs	s/symptoms		
Eye contact	: Adverse sym pain or irritat watering redness	nptoms may include the following: tion	
Inhalation	: Adverse sym respiratory tr coughing	nptoms may include the following: ract irritation	
Skin contact	: Adverse sym irritation redness dryness	nptoms may include the following:	

4.3 Indication of any immediate medical attention and special treatment needed			
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 		
Specific treatments	: No specific treatment.		

cracking

: No specific data.

SECTION 5: Firefighting measures

Ingestion

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Code : PMC10520009-M/2176 SIGMADUR 520 BASE RAL 5003 Date of issue/Date of revision

: 21 August 2023

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	-	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Code : PMC10520009-M/2176 SIGMADUR 520 BASE RAL 5003 Date of issue/Date of revision

: 21 August 2023

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Occupational exposure limits

Product/ingredient name	Exposure limit values
x ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 548 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 274 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	XYLENES
	Id be made to appropriate monitoring standards. Reference to be documents for methods for the determination of hazardous also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
₩ydrocarbons, C9, aromatics	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Dermal Long term Inhalation Long term Dermal Long term Oral Short term Inhalation Short term Inhalation Long term Dermal	150 mg/m ³ 25 mg/kg bw/day 32 mg/m ³ 11 mg/kg bw/day 11 mg/kg bw/day 260 mg/m ³ 260 mg/m ³ 125 mg/kg bw/day	Workers Workers General population General population General population General population General population	Systemic Systemic Systemic Local
English (GB)		United King	gdom (UK)		6/16

: PMC10520009-M/2176 Code SIGMADUR 520 BASE RAL 5003

Date of issue/Date of revision : 21 August 2023

SECTION 8: Exposure controls/personal protection

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	DNEL	Long term Inhalation	65.3 mg/m³	General population	
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
2-methoxy-1-methylethyl acetate	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	550 mg/m ³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
-	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	-
	Marine water	0.0635 mg/l	-
	Fresh water sediment	3.29 mg/kg	-
	Marine water sediment	0.329 mg/kg	-
	Soil	0.29 mg/kg	-
	Sewage Treatment Plant	100 mg/l	-
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	20 mg/kg	-

8.2 Exposure controls

Code : PMC10520009 SIGMADUR 520 BASE RAL 9		Date of issue/Date of revision	: 21 August 2023
SECTION 8: Exposu	re controls	/personal protection	
Appropriate engineering controls	or other en any recomr	ith adequate ventilation. Use process enclos gineering controls to keep worker exposure t mended or statutory limits. The engineering lust concentrations below any lower explosiv equipment.	to airborne contaminants below controls also need to keep gas,
Individual protection measured	ures		
Hygiene measures	eating, smo Appropriate Contamina contaminat	ds, forearms and face thoroughly after handli oking and using the lavatory and at the end of e techniques should be used to remove poter ted work clothing should not be allowed out of red clothing before reusing. Ensure that even the close to the workstation location.	of the working period. ntially contaminated clothing. of the workplace. Wash
Eye/face protection Skin protection	: Chemical s	splash goggles.	
Hand protection	worn at all f necessary. during use noted that t glove many protection t frequently r (breakthrou When only (breakthrou The user m product is t as included	esistant, impervious gloves complying with a times when handling chemical products if a r Considering the parameters specified by th that the gloves are still retaining their protect the time to breakthrough for any glove mater ufacturers. In the case of mixtures, consistin time of the gloves cannot be accurately estim repeated contact may occur, a glove with a p ugh time greater than 480 minutes according brief contact is expected, a glove with a prot ugh time greater than 30 minutes according to he most appropriate and takes into account d in the user's risk assessment.	risk assessment indicates this is e glove manufacturer, check tive properties. It should be rial may be different for different of several substances, the nated. When prolonged or protection class of 6 to EN 374) is recommended. tection class of 2 or higher to EN 374) is recommended. ve selected for handling this the particular conditions of use,
Gloves	May be use	ged or repeated handling, use the following ty ed: Chloroprene, nitrile rubber nded: neoprene, natural rubber (latex), butyl	
Body protection	performed handling th static prote	rotective equipment for the body should be s and the risks involved and should be approv is product. When there is a risk of ignition fr ctive clothing. For the greatest protection fro ude anti-static overalls, boots and gloves.	ed by a specialist before om static electricity, wear anti-
Other skin protection	based on th	e footwear and any additional skin protection ne task being performed and the risks involve efore handling this product.	
Respiratory protection	hazards of are expose certified res with an app	selection must be based on known or anticip the product and the safe working limits of the od to concentrations above the exposure limit spirators. Use a properly fitted, air-purifying proved standard if a risk assessment indicate conforming to EN140. Filter type: organic va	e selected respirator. If workers t, they must use appropriate, or air-fed respirator complying es this is necessary. Wear a
Environmental exposure controls	they comply	from ventilation or work process equipment y with the requirements of environmental pro e scrubbers, filters or engineering modification	tection legislation. In some

will be necessary to reduce emissions to acceptable levels.

Code	: PMC10520009-M/2176	Date of issue/Date of revision	: 21 August 2023
SIGMAD	UR 520 BASE RAL 5003		

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

1 Information on basic phys	sical and c	hemical pr	operties				
Appearance Bhysical state	. Liau	.i.al					
Physical state Colour	: Liqu						
Odour	: Gre	•					
		matic. available.					
Odour threshold						40 7700	
Melting point/freezing point	on o		following ing				(-46.8°F) This is ba . Weighted average
Initial boiling point and boiling range	: >37	7.78°C (>10	0°F)				
Flammability (solid, gas)	: liqu	id					
Upper/lower flammability or explosive limits		atest known t aromatic)	n range: Low	er: 1.4%	Upper: 7.6	% (Solvent	naphtha (petroleun
Flash point	: Clo	sed cup: 34	°C (93.2°F)				
Auto-ignition temperature	:						
Ingredient name		°C		°F	M	ethod	
methoxy-1-methylethyl acetate		333		631.4	DII	N 51794	
Decomposition temperature	:						
pH		applicable.					
Vie e e e itu			insoluble in				
Viscosity		ematic (40	C): >21 mm ²	/S			
Solubility(ies)							
Media	R	esult					
cold water	N	ot soluble					
Viscible with water	: No.						
Partition coefficient: n-octar water	nol/ : Not	applicable.					
Vapour pressure	:						
	Va	apour Pres	sure at 20°C	;	Va	apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method		mm Hg	kPa	Method
ethylbenzene	9.3	1.2					
Relative density	: 1.3						
Vapour density		hest known rage: 3.93		Air = 1) (2	2-methoxy-	1-methylet	hyl acetate). Weigh
Explosive properties	 The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible. 						
Oxidising properties Particle characteristics	: Pro	duct does n	ot present a	n oxidizing	g hazard.		

Median particle size : Not applicable.

Code : PMC1052	20009-M/2176	Date of issue/Date of revision	: 21 August 2023
SIGMADUR 520 BASE	RAL 5003		

SECTION 10: Stabilit	SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.				
	Refer to protective measures listed in sections 7 and 8.				
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.				
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hydrocarbons, C9, aromatics	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat - Female	3492 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapour	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	_
	LD50 Oral	Rat	6190 mg/kg	_
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
oury is on 20110	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Reaction mass of bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl	LD50 Dermal	Rat	>3170 mg/kg	-
1,2,2,6,6-pentamethyl- 4-piperidyl sebacate				
	LD50 Oral	Rat - Male, Female	3230 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMADUR 520 BASE RAL 5003 Hydrocarbons, C9, aromatics xylene 2-methoxy-1-methylethyl acetate ethylbenzene Reaction mass of bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	N/A 3492 4300 6190 3500 3230	12805.2 N/A 1700 N/A 17800 N/A	N/A N/A N/A N/A N/A	74.6 N/A 11 30 17.8 N/A	N/A N/A N/A N/A N/A

Irritation/Corrosion

English (GB)

Code	: PMC10520009-M/2176	Date of issue/Date of revision	: 21 August 2023
SIGMADUR	520 BASE RAL 5003		

SECTION 11: Toxicological information

	•				
Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	: Not available.	·			
Skin	: There are no data availab	le on the mixture it	self.		
Eyes	: There are no data available on the mixture itself.				
Respiratory	: There are no data availab	le on the mixture it	self.		
<u>Sensitisation</u>					
Conclusion/Summary					
Skin	: There are no data availab	le on the mixture it	self.		
Respiratory	: There are no data availab	le on the mixture it	self.		
Mutagenicity					
Conclusion/Summary	: There are no data availab	le on the mixture it	self.		
Carcinogenicity					
It has been observed that the leading to significant impairme	. .		•	e dust is inhaled	d in quantities
Conclusion/Summary	: There are no data availab	le on the mixture it	self.		
Reproductive toxicity					
Conclusion/Summary	: There are no data availab	le on the mixture it	self.		

There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

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Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9, aromatics	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
xylene	Category 3	-	Respiratory tract
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Teratogenicity

Conclusion/Summary

Product/ingredient name	Result
Hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Indestion	: No known significant effects or critical hazards.

Code	: PMC10520009-M/2176	Date of issue/Date of revision	: 21 August 2023
SIGMAD	JR 520 BASE RAL 5003		

SECTION 11: Toxicological information

Symptoms related to the pl	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

Delayed and immediate effec	ts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>S</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Other information	:	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
₩ydrocarbons, C9, aromatics	EC50 3.2 mg/l	Daphnia	48 hours
, , ,	LC50 9.2 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Reaction mass of bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	EC50 1.68 mg/l	Algae	72 hours
	LC50 0.9 mg/l	Fish	96 hours

Code: PMC10520009-M/2176Date of issue/Date of revision: 21 August 2023SIGMADUR 520 BASE RAL 5003

SECTION 12: Ecological information

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ydrocarbons, C9, aromatics 2-methoxy-1-methylethyl acetate	-	75 % - Readily - 28 days 83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-
Conclusion/Summary	: Not available.			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ydrocarbons, C9, aromatics xylene 2-methoxy-1-methylethyl acetate	- -	-	Readily Readily Readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ylene 2-methoxy-1-methylethyl acetate	3.12 1.2	7.4 to 18.5 -	Low Low
ethylbenzene	3.6	79.43	Low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>		
Methods of disposal	I The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.	
Hazardous waste	: Yes.	
Waste catalogue		
Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	

Packaging

English (GB)

Code : PMC10520009-M/2176	Date of issue/Date of revision	: 21 August 2023
SIGMADUR 520 BASE RAL 5003		

SECTION 13: Disposal considerations

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Methods of disposal		hould be avoided or minimised wherever possible. Waste cled. Incineration or landfill should only be considered ble.
Type of packaging		Waste catalogue
Container	15 01 04 meta	allic packaging
Special precautions	taken when handling empt Empty containers or liners residues may create a high container. Do not cut, wel	iner must be disposed of in a safe way. Care should be ied containers that have not been cleaned or rinsed out. may retain some product residues. Vapour from product nly flammable or explosive atmosphere inside the d or grind used containers unless they have been cleaned d dispersal of spilt material and runoff and contact with d sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	Ш	111	111	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (D/E)
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

14.6 Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
UK (GB)/REACH
Annex XIV - List of substances subject to authorisation
Annex XIV
None of the components are listed.
Substances of very high concern

None of the components are listed.

Code	: PMC10520009-M/2176	Date of issue/Date of revision	: 21 August 2023
SIGMADUR	520 BASE RAL 5003		

SECTION 15: Regulatory information

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	5 I J
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
-	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

United Kingdom (UK)

Code : PMC10520009-M/2176 Date of issue/Date of revision

: 21 August 2023

SIGMADUR 520 BASE RAL 5003

SECTION 16: Other information

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1A	SKIN SENSITISATION - Category 1A	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
History		

istory

Date of issue/ Date of revision	: 21 August 2023
Date of previous issue	: 11 November 2022
Prepared by	: EHS
Version	: 1.01

Disclaimer

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