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

SAFETY DATA SHEET

Europe

Date of issue/Date of revision : 13 August 2024

Version

: 1.04

1.1 Product identifier	
Product name	: SIGMADUR 520 BASE RAL 3000
Product code	: 00323500
Other means of identification	on
Not available.	
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional 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 Coatings Belgium BV/S Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435	RL
e-mail address of person responsible for this SDS	: Product.Stewardship.EMEA@ppg.com
1.4 Emergency telephone nu	Imber
<u>Supplier</u>	
+31 20 4075210	
SECTION 2: Hazards	identification
2.1 Classification of the subs	stance or mixture
Product definition	: Mixture
Classification according to Flam. Liq. 3, H226	Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

undertaking

1.1 Product identifier

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

English (GB)

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SECTION 2: Hazards identification

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

2.2 Label elements **Hazard pictograms**

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English (GB)	Europe 2	/18
not result in classification		
Product meets the criteria for PBT or vPvB Other hazards which do	This mixture does not contain any substances that are assessed to be a PBT or aProlonged or repeated contact may dry skin and cause irritation.	vPvB.
2.3 Other hazards		
Tactile warning of danger	: Not applicable.	
Containers to be fitted with child-resistant fastenings	: Not applicable.	
Special packaging requirem		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
elements		
Supplemental label	 Hydrocarbons, C9, aromatics > 0.1% cumene Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy- Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Not applicable. 	
Hazardous ingredients	P280, P210, P273, P304 + P312, P403 + P233, P501 xy lene	
Disposal	: Dispose of contents and container in accordance with all local, regional, national a international regulations.	ind
Storage	: Store in a well-ventilated place. Keep container tightly closed.	
Response	: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.	
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 rele the environment.	ase to
Precautionary statements		
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. 	
Signal word	: Warning	

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evision : 1

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
x ylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥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 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥5.0 - <10	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% EUH066: C ≥ 20%	[1]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥1.0 - ≤4.7	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
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	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	≥1.0 - ≤5.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
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	≤0.85	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
2-butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.30	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 See Section 16 for the full text of the H	ATE [Oral] = 1200 mg/ kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
			statements declared above.		

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SECTION 3: Composition/information on ingredients

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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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 symptoms and effects, both acute and delayed

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	۱.
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/sympto	<u>ms</u>	
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.	
4.3 Indication of any immediat	e medical attention and special treatment needed	
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delay. The exposed person may need to be kept under medical surveillance for 48 hou	
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2020/878) NO. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
Code : 00323500 SIGMADUR 520 BASE RAL 3	Date of issue/Date of revision : 13 August 2024 3000 ••••••••••••••••••••••••••••••••••••
SECTION 4: First aid	1 measures
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
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 precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ective 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 containment and cleaning up

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SECTION 6: Ac	cidental release measures
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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to oth sections	 r : 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.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 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.

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SECTION 8: Exposure controls/personal protection

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).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
x ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 550 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
2-butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
x ylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	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	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
Hydrocarbons, C9, aromatics > 0.1% cumene	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m ³	General population	Systemic
English (GB)	<u>.</u>	·	Europe	·	7/18

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SECTION 8: Exposure controls/personal protection

	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
2-methoxy-1-methylethyl	DNEL	Long term Inhalation	33 mg/m ³	General population	Local
acetate	DNEL	Long term initialation	55 mg/m	General population	LUCAI
acelale		Long to me labolation	22	Concret non-detion	Curatamia
	DNEL	Long term Inhalation	33 mg/m ³	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	275 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	550 mg/m³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m³	Workers	Local
2-butoxyethanol	DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	26.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	59 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	98 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m ³	General population	Local
	DNEL	Short term Inhalation	246 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	426 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1091 mg/m ³	Workers	Systemic

PNECs

Product/ingredient name	Туре	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	-
2-butoxyethanol	-	Fresh water	8.8 mg/l	Assessment Factors
	-	Marine water	0.88 mg/l	Assessment Factors
	-	Fresh water sediment	34.6 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	3.46 mg/kg	Equilibrium Partitioning
	-	Soil	3.13 mg/kg	Equilibrium Partitioning
	-	Sewage Treatment Plant	463 mg/l	Assessment Factors

8.2 Exposure controls

English (GB)	Europe	8/18
5 - (-)		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU))
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SECTION 8: Exposur	e c	controls/personal protection
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	ures	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Chemical splash goggles. Use eye protection according to EN 166.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	:	butyl rubber
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection		Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

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

<u>Appearance</u>								
Physical state	:	Liquid.						
Colour	:	Red.						
Odour	:	Aromatic.						
Odour threshold	:	Not available.						
Melting point/freezing point	:	May start to solidify at the following temperature: $-38^{\circ}C$ ($-36.4^{\circ}F$) This is based on data for the following ingredient: dimethyl glutarate. Weighted average: $-77.08^{\circ}C$ ($-106.7^{\circ}F$)						
Initial boiling point and boiling range	1	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	ge: Lower:	0.9% U	pper: 7.9%	6 (dimeth	yl glutarate))
Flash point	:	Closed cup: 34°C						
Auto-ignition temperature	:	-						
		Ingredient name		°C	°F		Method	
		methoxy-1-methylethyl	acetate	333	631	.4	DIN 51794	
Decomposition temperature		Stable under recomm		-	nd handling	g conditio	ns (see Sec	ction 7).
pH	- 1	Not applicable. insol		ter.				
Viscosity	- 1	Kinematic (40°C): >2	21 mm²/s					
Solubility(ies)	:	1						
Media		Result						
cold water		Not soluble						
	/:	Not applicable.						
water	/ : :	Not applicable.	1					
water	/:	Not applicable.	Vapou	r Pressu	ure at 20°(C Va	apour pres	sure at 50°
water	:	Ingredient name	mm Hg	kPa	ure at 20°0 Method	C Va mm Hg	apour pres kPa	sure at 50° Method
water	:				1	mm	· ·	
water Vapour pressure	:	Ingredient name	mm Hg 9.30076	kPa 1.2	Method	mm Hg	kPa	Method
water Vapour pressure Evaporation rate	:	Ingredient name ethylbenzene Highest known value	mm Hg 9.30076	kPa 1.2	Method	mm Hg	kPa	Method
water Vapour pressure Evaporation rate Relative density	:	Ingredient name ethylbenzene Highest known value butyl acetate	mm Hg 9.30076 e: 0.84 (eth e: 4.6 (Air	kPa 1.2 nylbenze	Method ne) Weigl	mm Hg	kPa age: 0.78cc	Method mpared wit
water Vapour pressure Evaporation rate Relative density Vapour density	:	Ingredient name ethylbenzene Highest known value butyl acetate 1.33 Highest known value	mm Hg 9.30076 e: 0.84 (eth e: 4.6 (Air : 1) not explos	kPa 1.2 nylbenze = 1) (2- ive, but t	Method ne) Weigl methoxy-1	mm Hg	kPa age: 0.78cc	Method ompared wit
water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	: : : : : :	Ingredient name ethylbenzene Highest known value butyl acetate 1.33 Highest known value average: 3.88 (Air = The product itself is	mm Hg 9.30076 e: 0.84 (eth e: 4.6 (Air : 1) not explos air is possi	kPa 1.2 nylbenze = 1) (2- ive, but t ble.	Method ne) Weigl methoxy-1 the format	mm Hg	kPa age: 0.78cc	Method ompared wit
water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	: : : : : :	Ingredient name ethylbenzene Highest known value butyl acetate 1.33 Highest known value average: 3.88 (Air = The product itself is vapour or dust with a	mm Hg 9.30076 e: 0.84 (eth e: 4.6 (Air : 1) not explos air is possi	kPa 1.2 nylbenze = 1) (2- ive, but t ble.	Method ne) Weigl methoxy-1 the format	mm Hg	kPa age: 0.78cc	Method ompared wit
Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size	: : : : :	Ingredient name ethylbenzene Highest known value butyl acetate 1.33 Highest known value average: 3.88 (Air = The product itself is vapour or dust with a	mm Hg 9.30076 e: 0.84 (eth e: 4.6 (Air : 1) not explos air is possi	kPa 1.2 nylbenze = 1) (2- ive, but t ble.	Method ne) Weigl methoxy-1 the format	mm Hg	kPa age: 0.78cc	Method ompared wit

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SECTION 9: Physical and chemical properties

No additional information.

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 hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat - Female	3492 mg/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
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Reaction mass of bis	LD50 Dermal	Rat	>3170 mg/kg	-
(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl				
1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
	LD50 Oral	Rat - Male, Female	3230 mg/kg	-
2-butoxyethanol	LC50 Inhalation Vapour	Rat	3 mg/l	4 hours
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value	
Dermal	12290.18 mg/kg	
Inhalation (vapours)	66.95 mg/l	

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SECTION 11: Toxicological information

Irritation/Corrosion

Product/ingredier	nt name	Result	Species	Score	Exposure	Observation
xylene 2-butoxyethanol		Skin - Moderate irritant Eyes - Irritant Skin - Moderate irritant	Rabbit Rabbit Rabbit	- - -	24 hours 500 mg 24 hours 4 hours	- 21 days 28 days
Conclusion/Summary						
Skin	: There are	no data available on the r	nixture itself			
Eyes	: There are	no data available on the r	nixture itself			
Respiratory	: There are	no data available on the r	nixture itself			
Sensitisation						
Conclusion/Summary						
Skin	: There are	e no data available on the	mixture itsel	f.		
Respiratory	: There are	e no data available on the	mixture itsel	f.		
Mutagenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary : There are no data available on the mixture itself.						
Specific target organ toxicity (single exposure)						

Product/ingredient name	Category	Route of exposure	Target organs
xylene Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects
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

Product/ingredient name		Result	
xylene Hydrocarbons, C9, aromatics > 0.1% cumene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health	effects		
Inhalation	: May cause respiratory irr	itation.	
Ingestion	: No known significant effects or critical hazards.		
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.		
Eye contact : Causes serious eye irritation.		tion	

English (GB)
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878					
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SECTION 11: Toxicological information

Symptoms related to the ph	vsical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following:
	respiratory tract irritation
	coughing
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation
	redness
	dryness
	cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation
	watering
	redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	
Potential chronic health effe Not available.	
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	: 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.
	may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrocarbons, C9, aromatics > 0.1% cumene	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	Fish - Oncorhynchus	96 hours
	water	mykiss	
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
Reaction mass of bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl	EC50 1.68 mg/l	Algae	72 hours
1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
	LC50 0.9 mg/l	Fish	96 hours
2-butoxyethanol	Acute LC50 1474 mg/l	Fish	96 hours
	Chronic NOEC >100 mg/l	Fish	21 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	-	83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Conclusion/Summary : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
2-methoxy-1-methylethyl acetate	-	-	Readily
ethylbenzene	-	-	Readily
2-butoxyethanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
ethylbenzene	3.6	79.43	Low
2-butoxyethanol	0.81	-	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.

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 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

Product

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    Methods of disposal
    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.
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European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06	mixed packaging
Special precautions	taken when h Empty contai residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be nandling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. yeld or grind used containers unless they have been cleaned thoroughly woid dispersal of spilt material and runoff and contact with soil, waterways, ewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA	
14.1 UN number or ID 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	
English (GB)		Euro	ope	15/18	

Code <th::00323500< th=""> Date of issue/Date of revision : 13 August 2024 SIGMADUR 520 BASE RAL 3000 </th::00323500<>					
SECTION 14: Transport information					
14.4 Packing group			III		

group				
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 Maritime transport in : Not applicable. bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (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.

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

mixtures and articles Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

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SECTION 15: Regulatory information

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Full text of abbreviated H statements

English (GB)	Europe	17/18
ו מווו. בוץ. ב	I LAWINADLE LIQUIDO - Calegui y Z	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Carc. 1B	CARCINOGENICITY - Category 1B	
Aqualic Chronic 4 Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Aquatic Chronic 3 Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Aquatic Chronic 2 Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Calegoly 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Calegoly 3	
Aquatic Chronic 1 Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Calegoly T LONG-TERM (CHRONIC) AQUATIC HAZARD - Calegoly 2	
Aquatic Acute 1 Aquatic Chronic 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
-		
Acute Tox. 3	ACUTE TOXICITY - Category 3	
Full text of classifications [CLP/GHS]	1	
EUH066	Repeated exposure may cause skin dryness or cracking.	
H413	May cause long lasting harmful effects to aquatic life.	
H412	Harmful to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H410	Very toxic to aquatic life with long lasting effects.	
H400	Very toxic to aquatic life.	
	exposure.	
H373	May cause damage to organs through prolonged or repeated	ł
H361f	Suspected of damaging fertility.	
H350	May cause cancer.	
H336	May cause drowsiness or dizziness.	
H335	May cause respiratory irritation.	
H332	Harmful if inhaled.	
H331	Toxic if inhaled.	
H319	Causes serious eye irritation.	
H317	May cause an allergic skin reaction.	
H315	Causes skin irritation.	
H312	Harmful in contact with skin.	
H304	May be fatal if swallowed and enters airways.	
H302	Harmful if swallowed.	
H226	Flammable liquid and vapour.	
H225	Highly flammable liquid and vapour.	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (E	U)
2020/878	

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SECTION 16: Other information		
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	

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Date of issue/ Date of revision	: 13 August 2024
Date of previous issue	: 5 February 2024
Prepared by	: EHS
Version	: 1.04

<u>Disclaimer</u>

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