SAFETY DATA SHEET

Date of issue/Date of revision : 21 March 2024 Version : 12.07 SECTION 1: Identification of the substance/mixture and of the company/ : SIGMADUR 550 BASE BLUE 1199 : 00240466

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/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

undertaking

Product code

Not available.

1.1 Product identifier Product name

Other means of identification

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

SECTION 2: Hazards identification

2.1 Classification of the sub	stance or mixture	
Product definition	: Mixture	
Classification according to	Regulation (EC) No.	<u>1272/2008 [CLP/GHS]</u>
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 I	nazardous according to	Regulation (EC) 1272/2008 as amended.



Denmark

Code : 00240466	Date of issue/Date of revision	: 21 March 2024
SIGMADUR 550 BASE BLUE 1199		

SECTION 2: Hazards identification

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

ŝ

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

2.2 Label elements

Hazard pictograms



	• •	
Signal word	Warning	
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.	
Response	IF INHALED: Call a POISON CENTER or doctor if you feel unwell.	
Storage	Store in a well-ventilated place. Keep container tightly closed.	
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
	P280, P210, P273, P304 + P312, P403 + P233, P501	
Hazardous ingredients	xylene 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	
Supplemental label elements	Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.	
Special packaging requirem	<u>its</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	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.	

Code : 00240466 SIGMADUR 550 BASE BLUE 1199 Date of issue/Date of revision

: 21 March 2024

SIGNADOR 330 BASE BEDE 1199

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
xylene	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]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[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	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	≤1.0	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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>

En	nglish (GB)	Denmark	3/20

Code : 00240466 Date o

Date of issue/Date of revision

: 21 March 2024

SIGMADUR 550 BASE BLUE 1199

SECTION 3: Composition/information on ingredients

[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	ii	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is rregular 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		f 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	s g	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	<u>effects</u>
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.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/s</u>	symptoms
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 im	mediate 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.

English (GB)
-----------	-----

Code	: 00240466	Date of issue/Date of revision	: 21 March 2024
SIGMADUR	550 BASE BLUE 1199		

SECTION 5: Firefighting 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 fi	rom 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 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, protective 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			
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		

English (GB)	Denmark	5/20

disposal container. Dispose of via a licensed waste disposal contractor.

Code : 00240 SIGMADUR 550 BAS		Date of issue/Date of revision	: 21 March 2024
SECTION 6: Ac	cidental release m	easures	
Large spill	explosion-proo sewers, water treatment plant combustible, a place in contain	hout risk. Move containers from spill area f equipment. Approach the release from courses, basements or confined areas. Not t or proceed as follows. Contain and colle bsorbent material e.g. sand, earth, vermin ner for disposal according to local regulat contractor. Contaminated absorbent material	upwind. Prevent entry into Wash spillages into an effluent ect spillage with non- culite or diatomaceous earth and tions. Dispose of via a licensed

	hazard as the spilt product.
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.
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.

Code: 00240466Date of issue/Date of revision: 21 March 2024

SIGMADUR 550 BASE BLUE 1199

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
xylene	Working Environment Authority (Denmark, 2/2023). [Xylenes, all isomers] Absorbed through skin. TWA: 109 mg/m ³ 8 hours. TWA: 25 ppm 8 hours. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
n-butyl acetate	Working Environment Authority (Denmark, 2/2023). [Butyl acetate, all isomers] TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
ethylbenzene	Working Environment Authority (Denmark, 2/2023). Absorbed through skin. Carcinogen. TWA: 217 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 434 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
toluene	Working Environment Authority (Denmark, 2/2023). Absorbed through skin. TWA: 94 mg/m ³ 8 hours. TWA: 25 ppm 8 hours. STEL: 384 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.

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.
	ol nazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
xylene	DNEL	Long term Oral	12.5 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	
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
n-butyl acetate	DNEL	Long term Inhalation	300 mg/m ³	Workers	Systemic
English (GB)		·	Denmark	·	7/20

Code : 00240466 SIGMADUR 550 BASE BLUE 1199 Date of issue/Date of revision

: 21 March 2024

SECTION 8: Exposure controls/personal protection

	•	I I			
	DNEL	Long term Dermal	11 mg/m³	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	300 mg/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
	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/m³	Workers	Local
toluene	DNEL	Long term Oral	8.13 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m ³	General population	Local
	DNEL	Short term Inhalation	226 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Systemic
	I		-		

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	-
n-butyl acetate	-	Fresh water	0.18 mg/l	-
	-	Marine water	0.018 mg/l	-
	-	Fresh water sediment	0.981 mg/kg	-
	-	Marine water sediment	0.0981 mg/kg	-
	-	Sewage Treatment Plant	35.6 mg/l	-
	-	Soil	0.0903 mg/kg	-
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	-
toluene	-	Fresh water	0.68 mg/l	Sensitivity Distribution
	-	Marine water	0.68 mg/l	Sensitivity Distribution
English (GB)		Denmark		8/20

Code : 00240466 SIGMADUR 550 BASE BLUE 1199		Date of issue/Date o	f revision :	21 March 2024	
SECTION 8: Exposure controls/personal protection					
	- -		13.61 mg/l 16.39 mg/kg dwt 16.39 mg/kg dwt	Sensitivity Distribution Equilibrium Partitioning -	

8.2 Exposure controls	
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 meas	sures
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 Skin protection	: Chemical splash goggles. Use eye protection according to EN 166.
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	: For prolonged or repeated handling, use the following type of gloves: Recommended: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), Viton® May be used: butyl rubber Not recommended: nitrile 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.

Code : 00240466 SIGMADUR 550 BASE BLUE	Date of issue/Date of revision : 21 March 2024 1199
SECTION 8: Exposu	re controls/personal protection
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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>							
Physical state	:	Liquid.					
Colour	:	Not available.					
Odour	:	Not available.					
Odour threshold	:	Not available.					
Melting point/freezing point							
Initial boiling point and boiling range	:	>37.78°C					
Flammability	1	Not available.					
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)					
Flash point	:	Closed cup: 28°C					
Auto-ignition temperature	:						
		Ingredient name	°C	°F	Method		
		29H,31H-phthalocyaninato(2-)-N29, N30,N31,N32 copper	356	672.8	EU A.16		
Decomposition temperature : Stable under recommended storage and handling conditions		litions (see Section 7).					
ЭΗ	:	: Not applicable. insoluble in water.					
Viscosity		: Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s					
Solubility(ies)	:						
Media		Result					
cold water		Not soluble					

Partition coefficient: n-octanol/ : Not applicable.

÷

water

Vapour pressure

Code : 00240466 SIGMADUR 550 BASE BLUE 1199 Date of issue/Date of revision

: 21 March 2024

SECTION 9: Physical and chemical properties

		Vapour Pressure at 20°C		sure at 20°C	Vapour pressure at 50		sure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		p≁butyl acetate	11.25096	1.5	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 1 (n-but	yl aceta	te) Weighted	average:	0.81com	pared with
Relative density	:	1.29						
Vapour density	:	Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.75 (Air = 1)						
Explosive properties	:	The product itself is vapour or dust with a	•		t the formation	of an ex	plosible n	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information No additional information.								

SECTION 10: Stability and reactivity

 10.2 Chemical stability 10.3 Possibility of hazardous reactions 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. Depending on conditions, decomposition products may include the following materials: 	10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
hazardous reactions10.4 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.	10.2 Chemical stability	: The product is stable.	
10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	•	: Under normal conditions of storage and use, hazardous reactions will not occur.	
oxidising agents, strong alkalis, strong acids.	10.4 Conditions to avoid		cts.
10.6 Hazardous : Depending on conditions, decomposition products may include the following materials:	10.5 Incompatible materials		
decomposition products carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides			ıls:

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	A	4	A	
Addie toxioity	AC	ΠΤΡ	TOY	CITV
		acc	LO A	

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/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	-
English (GB)	Denma	rk		11/20

Code <th::00240466< th=""> Date of issue/Date of revision : 21 March 2024 SIGMADUR 550 BASE BLUE 1199 </th::00240466<>							
SECTION 11: Toxicological information							
(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate toluene	LD50 Oral LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat - Male, Female Rat Rabbit Rat	3230 mg/kg 49 g/m ³ 8.39 g/kg 5580 mg/kg	- 4 hours -			

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

Acute toxicity estimates

Route	ATE value
Dermal	7081.81 mg/kg
Inhalation (vapours)	41.27 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	<u>city (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation
n-butyl acetate	Category 3		Narcotic effects
toluene	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

English (GB)	Denmark	12/20
--------------	---------	-------

Code : 00240466	Date of issue/Date of revision	: 21 March 2024
SIGMADUR 550 BASE BLUE 1199		

SECTION 11: Toxicological information

Product/i	ngredient name	Result		
xylene ethylbenzene toluene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Information on likely routes of exposure	: Not available.			
Potential acute health effect	<u>ts</u>			
Inhalation	: May cause respiratory irrit	ation.		
Ingestion	: No known significant effect	No known significant effects or critical hazards.		
Skin contact	: Causes skin irritation. Det	fatting to the skin. May cause an allergic skin reaction.		
Eye contact	: Causes serious eye irritati	Causes serious eye irritation.		
Symptoms related to the ph	ysical, chemical and toxicol	ogical characteristics		
Inhalation	: Adverse symptoms may ir respiratory tract irritation coughing	nclude the following:		
Ingestion	: No specific data.			
Skin contact	: Adverse symptoms may ir irritation redness dryness cracking	nclude the following:		
Eye contact	: Adverse symptoms may ir pain or irritation watering redness	nclude the following:		
Delayed and immediate effe	ects as well as chronic effect	s from short and long-term exposure		
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effe	ects			
Not available.				
Conclusion/Summary	: Not available.			
General		ntact can defat the skin and lead to irritation, cracking and/or ed, a severe allergic reaction may occur when subsequently s.		
Carcinogenicity	: No known significant effec	ts or critical hazards.		
Mutagenicity	: No known significant effect	ts or critical hazards.		
Reproductive toxicity	: No known significant effect	ts or critical hazards.		
Other information	: Not available.			

Code : 00240466

Date of issue/Date of revision

: 21 March 2024

SIGMADUR 550 BASE BLUE 1199

SECTION 11: Toxicological information

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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n -butyl acetate	Acute LC50 18 mg/l	Fish	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

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
-butyl acetate	TEPA and OECD 301D	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
x ylene	-	-	Readily
n-butyl acetate	-	-	Readily
ethylbenzene	-	-	Readily
toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
n-butyl acetate	2.3	-	Low
ethylbenzene	3.6	79.43	Low
toluene	2.73	8.32	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Not available.

English (GB) Denmark 14/20

Code : 00240466	Date of issue/Date of revision	: 21 March 2024		
SIGMADUR 550 BASE BLUE 1199				

SECTION 12: Ecological information

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 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

ProductMethods 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.

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 This material and its container must be disposed of in a safe way. Care shot taken when handling emptied containers that have not been cleaned or rins Empty containers or liners may retain some product residues. Vapour from residues may create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned th internally. Avoid dispersal of spilt material and runoff and contact with soil, drains and sewers. 			

14. Transport information

Code	: 00240466	Date of issue/Date of revision	: 21 March 2024
SIGMADUR	550 BASE BLUE 1199		

14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
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
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code	: (D/E)
ADN	 The product is only regulated as an environmentally hazardous substance when transported in tank vessels. This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.
14.6 Special pred user	cautions for : 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 tra	ansport in . Not applicable

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.			
English (GB) Denmark			

2020/878				
Code : 00240466 SIGMADUR 550 BASE BLUE	Date of issue/Da	te of revision :	21 March 2024	
SECTION 15: Regula	atory information			
Ozone depleting substance Not listed.	<u>∋s (1005/2009/EU)</u>			
Seveso Directive This product is controlled un Danger criteria	nder the Seveso Directive.			
Category P5c				
National regulations				
Product registration number	: PR-1769728			
Danish fire class	: II-1			
Executive Order No. 1795/	2015			
Ingredient name		Annex I Section A	Annex I Section B	
ethylbenzene		Listed	-	
MAL-code	: 4-3			
	General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/ protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.			
	MAL-code: 4-3 Application: When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.			
	- Air-supplied half mask and eye protection must be worn.			
	When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.			
	- Air-supplied half mask, coveralls and eye protection must be worn.			
	During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.			
	- Air-supplied full mask and coveralls r	nust be worn.		
When spraying in existing* spray booths, if the operator is out			ide the spray zone.	
	- Air-supplied full mask, arm protectors and apron must be worn.			

Code : 00240466 SIGMADUR 550 BASE BL	Date of issue/Date of revision : 21 March 2024 UE 1199		
SECTION 15: Regu	Ilatory information		
	During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.		
	- Air-supplied full mask must be worn.		
	During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.		
	- Air-supplied full mask, coveralls and hood must be worn.		
	Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.		
	Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.		
	Caution The regulations contain other stipulations in addition to the above.		
	*See Regulations.		
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.		
List of undesirable substances	: Not listed		
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.		

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

Code : 00240466 SIGMADUR 550 BASE BLUE 1199	Date of issue/Date of revision	:21 March 2024
SECTION 16: Other information		

CHON 16: Other Information

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A English (GB)	ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Catego FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A Denmark	jory 2 19/20
Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Aquatic Chronic 4	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Cate LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca	tegory 1 tegory 3

Code : 00240466 SIGMADUR 550 BASE BLU	JE 1199	Date of issue/Date of revision : 21 March 2024	
SECTION 16: Other	r information		
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSUR Category 2	RE -
STOT SE 3		SPEČIFÍC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
History			
Date of issue/ Date of revision	: 21 March 2024		
Date of previous issue	: 23 October 2023	3	

Version

Prepared by

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

: EHS

: 12.07