## SAFETY DATA SHEET

Date of issue/Date of revision

: 15 January 2024

: 18.02 Version

**Europe** 

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

	1.1	Prod	luct id	entifier
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Product name	: SIGMADUR 550 BASE RAL 2004
Product code	: 00293416

**Product code** 

Other means of identification

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

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

#### 1.4 Emergency telephone number

#### **Supplier**

+31 20 4075210

#### **SECTION 2: Hazards identification**

2	2.1 Classification of the substance or mixture
	Product definition : Mixture
	Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
	Flam. Liq. 3, H226
	Skin Sens. 1, H317
	Carc. 1B, H350
	STOT SE 3, H335
	STOT SE 3, H336
	Aquatic Chronic 3, H412
	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

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#### **SECTION 2: Hazards identification**

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

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#### 2.2 Label elements Hazard pictograms

Signal word		Danger
Hazard statements	:	Flammable liquid and vapour. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	:	IF exposed or concerned: Get medical advice or attention.
Storage	1	Store in a well-ventilated place. Keep container tightly closed.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P202, P280, P210, P308 + P313, P403 + P233, P501
Hazardous ingredients	:	2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenoic acid Hydrocarbons, C9, aromatics > 0.1% cumene n-butyl acetate 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	:	Restricted to professional users.
Special packaging requirem	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		

**Product meets the criteria** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. for PBT or vPvB

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#### **SECTION 2: Hazards identification**

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

#### **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
Propenoic acid, 2-methyl- , methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono (2-methyl-2-propenoate) and 2-propenoic acid	CAS: 37237-99-3	≥25 - ≤50	Skin Sens. 1, H317	-	[1]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥10 - <20	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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - <10	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]
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]
xylene	EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	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]
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	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.35	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
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#### **SECTION 3: Composition/information on ingredients**

1,2,2,6,6-pentamethyl- 4-piperidyl sebacate		
	See Section 16 for the full text of the H statements declared above.	

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

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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	<u>effects</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/	symptoms
Eye contact	: No specific data.

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SECTION 4: Fir	st aid measures
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any i	mmediate 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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.

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#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	vacuate surround itering. Do not to ires, smoking or f lequate ventilation	aken involving any personal risk or without suitable training. ng areas. Keep unnecessary and unprotected personnel from uch or walk through spilt material. Shut off all ignition sources. No ames in hazard area. Avoid breathing vapour or mist. Provide n. Wear appropriate respirator when ventilation is inadequate. Put onal protective equipment.
For emergency responders		ng is required to deal with the spillage, take note of any information in e and unsuitable materials. See also the information in "For non- nel".
6.2 Environmental precautions	wers. Inform the Illution (sewers, w	pilt material and runoff and contact with soil, waterways, drains and relevant authorities if the product has caused environmental raterways, soil or air). Water polluting material. May be harmful to eleased in large quantities.
6.3 Methods and material for	inment and clea	ning up
Small spill	plosion-proof equ if water-insoluble	risk. Move containers from spill area. Use spark-proof tools and ipment. Dilute with water and mop up if water-soluble. Alternatively, , absorb with an inert dry material and place in an appropriate waste Dispose of via a licensed waste disposal contractor.
Large spill	plosion-proof equivers, water cours eatment plant or p mbustible, absorb ace in container f	risk. Move containers from spill area. Use spark-proof tools and ipment. Approach the release from upwind. Prevent entry into ses, basements or confined areas. Wash spillages into an effluent roceed as follows. Contain and collect spillage with non- bent material e.g. sand, earth, vermiculite or diatomaceous earth and or disposal according to local regulations. Dispose of via a licensed ractor. Contaminated absorbent material may pose the same product.
6.4 Reference to other	e Section 1 for e	mergency contact 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).

See Section 13 for additional waste treatment information.

#### 7.1 Precautions for safe handling

sections

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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.
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See Section 8 for information on appropriate personal protective equipment.

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

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SECTION 7: Handling and storage				
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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.

#### **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	
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m <sup>3</sup> 15 minutes.	
	STEL: 200 ppm 15 minutes. TWA: 442 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.	
n-butyl acetate	EU OEL (Europe, 1/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m <sup>3</sup> 15 minutes. TWA: 241 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.	
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. STEL: 442 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.	
procedures Standard E by inhalation strategy) E application biological a requirement agents) R	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposu 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		
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#### **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
✓ydrocarbons, 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	$32 \text{ mg/m}^3$	General population	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
n-butyl acetate	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11 mg/m <sup>3</sup>	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	Systemic
	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/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
xylene	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	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 <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
DNECO			· · <u>-</u> ····g/····		

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
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	-
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	-
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	-	Soil	0.0903 mg/kg	-		
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	-		

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust or other engineering controls to keep worker exposure to airborne contami any recommended or statutory limits. The engineering controls also need vapour or dust concentrations below any lower explosive limits. Use explo ventilation equipment.Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical produce eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated Contaminated work clothing should not be allowed out of the workplace. W contaminated clothing before reusing. Ensure that eyewash stations and s showers are close to the workstation location.Eye/face protection Skin protection: Chemical splash goggles. Use eye protection according to EN 166.	nants below to keep gas, sion-proof cts, before d. d clothing. Vash
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical product eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated Contaminated work clothing should not be allowed out of the workplace. W contaminated clothing before reusing. Ensure that eyewash stations and s showers are close to the workstation location.Eye/face protection: Chemical splash goggles. Use eye protection according to EN 166.	d. 1 clothing. Vash
<ul> <li>eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated Contaminated work clothing should not be allowed out of the workplace. V contaminated clothing before reusing. Ensure that eyewash stations and s showers are close to the workstation location.</li> <li>Eye/face protection : Chemical splash goggles. Use eye protection according to EN 166.</li> </ul>	d. 1 clothing. Vash
Skin protection	
<ul> <li>Hand protection</li> <li>Chemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment indisis necessary. Considering the parameters specified by the glove manufact during use that the gloves are still retaining their protective properties. It is noted that the time to breakthrough for any glove material may be different glove manufacturers. In the case of mixtures, consisting of several substaprotection time of the gloves cannot be accurately estimated. When prolor frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recom When only brief contact is expected, a glove with a protection class of 2 or (breakthrough time greater than 30 minutes according to EN 374) is recom The user must check that the final choice of type of glove selected for hand product is the most appropriate and takes into account the particular conditional included in the user's risk assessment.</li> </ul>	dicates this turer, check hould be for different inces, the nged or mmended. higher inmended. dling this
Gloves : butyl rubber	
<ul> <li>Body protection</li> <li>Personal protective equipment for the body should be selected based on the being performed and the risks involved and should be approved by a special handling this product. When there is a risk of ignition from static electricity static protective clothing. For the greatest protection from static discharges should include anti-static overalls, boots and gloves. Refer to European St 1149 for further information on material and design requirements and test in the selected based on the selected based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the being performed and the risks involved and should be approved by a special based on the risks involved and should be approved by a special based on the based on the risks involved and t</li></ul>	ialist before v, wear anti- s, clothing tandard EN
Other skin protectionAppropriate footwear and any additional skin protection measures should be based on the task being performed and the risks involved and should be a a specialist before handling this product.	
<ul> <li>Respiratory protection</li> <li>Respirator selection must be based on known or anticipated exposure level hazards of the product and the safe working limits of the selected respirator workers are exposed to concentrations above the exposure limit, they must appropriate, certified respirators. Use a properly fitted, air-purifying or air-fic complying with an approved standard if a risk assessment indicates this is Wear a respirator conforming to EN140. Filter type: organic vapour (Type particulate filter P3</li> </ul>	or. If st use ed respirator necessary.

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#### **SECTION 8: Exposure controls/personal protection**

**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	:	Orange.				
Odour	1	Not available.				
Odour threshold	:	Not available.				
Melting point/freezing point	:	May start to solidify at the follow on data for the following ingredi -78.26°C (-108.9°F)				
Initial boiling point and boiling range	:	>37.78°C				
Flammability	:	Not available.				
Upper/lower flammability or	÷	Greatest known range: Lower:	1.4% Upr	er: 7.6% (Sc	lvent naphtha (	petroleum).
explosive limits		light aromatic)		- (		, <i>,</i> ,
		•		- (		, <i>,,</i>
explosive limits Flash point		light aromatic)		- (		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
explosive limits		light aromatic)	••••••••••••••••••••••••••••••••••••••	°F	Method	
explosive limits Flash point		light aromatic) Closed cup: 31°C				
explosive limits Flash point Auto-ignition temperature	:	light aromatic) Closed cup: 31°C Ingredient name (4-chloro-2-nitrophenyl)azo]-N- (2,3-dihydro-2-oxo-1H-benzimidazol-	° <b>C</b> 310	° <b>F</b> 590	Method	
explosive limits Flash point Auto-ignition temperature Decomposition temperature	:	light aromatic) Closed cup: 31°C Ingredient name (4-chloro-2-nitrophenyl)azo]-N- (2,3-dihydro-2-oxo-1H-benzimidazol- 5-yl)-3-oxobutyramide	°C 310 prage and	° <b>F</b> 590	Method	
explosive limits Flash point Auto-ignition temperature Decomposition temperature pH	:	light aromatic) Closed cup: 31°C Ingredient name ((4-chloro-2-nitrophenyl)azo]-N- (2,3-dihydro-2-oxo-1H-benzimidazol- 5-yl)-3-oxobutyramide Stable under recommended stor	°C 310 prage and	° <b>F</b> 590	Method	
explosive limits Flash point Auto-ignition temperature Decomposition temperature pH Viscosity	:	light aromatic) Closed cup: 31°C Ingredient name (4-chloro-2-nitrophenyl)azo]-N- (2,3-dihydro-2-oxo-1H-benzimidazol- 5-yl)-3-oxobutyramide Stable under recommended stor Not applicable. insoluble in wate	°C 310 prage and	° <b>F</b> 590	Method	
explosive limits Flash point	:	light aromatic) Closed cup: 31°C Ingredient name (4-chloro-2-nitrophenyl)azo]-N- (2,3-dihydro-2-oxo-1H-benzimidazol- 5-yl)-3-oxobutyramide Stable under recommended stor Not applicable. insoluble in wate	°C 310 prage and	° <b>F</b> 590	Method	

Partition coefficient: n-octanol/ : Not applicable. water

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Vapour pressure

		Vapour Pressure at 20°C			Vapour pressure at 50°C		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	: 1 (n-but	yl aceta	te) Weighted	average:	0.87com	pared with
Relative density	: 1.29						
Vapour density	: Highest known value 3.87 (Air = 1)	e: 4.1 (Aiı	r = 1) (1	,2,4-trimethylb	enzene)	. Weight	ed average:

English (GB)	Europe
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<b>SECTION 9: Physica</b>	I and chemical properties
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties Particle characteristics	: Product does not present an oxidizing hazard.

Median particle size

9.2 Other information

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

: Not applicable.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono (2-methyl-2-propenoate) and 2-propenoic acid	LD50 Oral	Rat	>5000 mg/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat - Female	3492 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	17.8 mg/l 17.8 g/kg 3.5 g/kg	4 hours - -
n-butyl acetate	LC50 Inhalation Vapour LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	>21.1 mg/l 2000 ppm >17600 mg/kg 10.768 g/kg	4 hours 4 hours - -
xylene	LD50 Dermal LD50 Oral	Rabbit Rat	1.7 g/kg 4.3 g/kg	-
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl	LD50 Dermal	Rat	>3170 mg/kg	-
English (GB)	Europe			11/18

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SECTION 11: Toxicological information	tion	

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1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 Oral	Rat - Male, Female	3230 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

#### 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

**Sensitisation** 

: There are no data available on the mixture itself.

Product/ingredient name		Route of exposure	Species	Result
2-Propenoic acid, 2-methy with butyl 2-propenoate, et 1,2-propanediol mono(2-m 2-propenoic acid	henylbenzene,	skin	Mouse	Sensitising
Conclusion/Summary				·
Skin	: There are no data av	ailable on the mixtu	re itself.	
Respiratory	: There are no data av	ailable on the mixtu	re itself.	
Mutagenicity				
Conclusion/Summary	: There are no data av	ailable on the mixtu	re itself.	
<b>Carcinogenicity</b>				
Conclusion/Summary	: There are no data av	ailable on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data av	ailable on the mixtu	re itself.	
<b>Teratogenicity</b>				
Conclusion/Summary	: There are no data av	ailable on the mixtu	re itself.	
Specific target organ toxi	<u>city (single exposure)</u>			

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

#### Specific target organ toxicity (repeated exposure)

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

**Aspiration hazard** 

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### SECTION 11: Toxicological information

Product/i	ing	redient name	Result	
Hydrocarbons, C9, aromatics ethylbenzene xylene			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	:	Can cause central nervous system dizziness. May cause respiratory i	(CNS) depression. May cause drowsiness or rritation.	
Ingestion	4	Can cause central nervous system	(CNS) depression.	
Skin contact	:	Defatting to the skin. May cause s reaction.	kin dryness and irritation. May cause an allergic s	skin
Eye contact	1	No known significant effects or crit	ical hazards.	
Symptoms related to the ph	iys	ical, chemical and toxicological c	haracteristics	
Inhalation	:	Adverse symptoms may include th respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	e following:	
Ingestion	4	No specific data.		
Skin contact	:	Adverse symptoms may include th irritation redness dryness cracking	e following:	
Eye contact	1	No specific data.		
Delayed and immediate effe	oct	s as well as chronic effects from s	short and long-term exposure	
Short term exposure				
Potential immediate effects	:	Not available.		
Potential delayed effects	1	Not available.		
Long term exposure				
Potential immediate effects	:	Not available.		
Potential delayed effects	1	Not available.		
Potential chronic health effe	ect	<u>s</u>		
Not available.				
Conclusion/Summary	:	Not available.		
General	:		defat the skin and lead to irritation, cracking and/ ere allergic reaction may occur when subsequently	
Carcinogenicity	:	May cause cancer. Risk of cancer	depends on duration and level of exposure.	
Mutagenicity	:	No known significant effects or crit	ical hazards.	
Reproductive toxicity	:	No known significant effects or crit	ical hazards.	
Other information	:	Not available.		
English (GB)		E	Europe 13/18	8

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#### **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
₩ydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l	Daphnia	48 hours
	LC50 9.2 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
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
√ydrocarbons, C9, aromatics > 0.1% cumene ethylbenzene n-butyl acetate	- - TEPA and OECD 301D	75 % - Readily - 28 days 79 % - Readily - 10 days 83 % - Readily - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
₩ydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
ethylbenzene	-	-	Readily
n-butyl acetate	-	-	Readily
xylene	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	Low
n-butyl acetate	2.3	-	Low
xylene	3.12	7.4 to 18.5	Low

#### 12.4 Mobility in soil

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#### **SECTION 12: Ecological information**

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

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 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**

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.

#### 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 should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways,	

drains and sewers.

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### **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
14.4 Packing group	Ξ	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	: 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.		
IATA	: None identified.		
14.6 Special precuser	<ul> <li>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.</li> </ul>		

#### **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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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 : Restricted to professional users. 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)

English (GB)

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#### **SECTION 15: Regulatory information**

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### Danger criteria

Category

P5c

#### 15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

#### assessment

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

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.
H350	May cause cancer.
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.
H411	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]

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

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<b>SECTION 16: Other information</b>	1
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2 STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3

<u>History</u>	
Date of issue/ Date of revision	: 15 January 2024
Date of previous issue	: 24 October 2023
Prepared by	: EHS
Version	: 18.02

#### <u>Disclaimer</u>

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