SAFETY DATA SHEET

Date of issue/Date of revision

: 18 August 2022

: 1.01 Version

Europe

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

1.1 Product identifier

Product name	:	SIGMAFAST 205 BASE RAL 9002
Product code	:	00385222
Other means of identification	n	

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

2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 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.

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

Europe

Code : 00385222	Date of issue/Date of revision	: 18 August 2022
SIGMAFAST 205 BASE RAL 9002		

SECTION 2: Hazards identification

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. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	: Take off contaminated clothing and wash it before reuse.
Storage	Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. 280, P210, P273, P261, P362 + P364, P501
Hazardous ingredients	: Epoxy Resin (700 <mw<=1100) epoxy resin (MW ≤ 700) Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-</mw<=1100)
Supplemental label elements	 Contains epoxy constituents. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ients
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 : 00385222

Date of issue/Date of revision

: 18 August 2022

SIGMAFAST 205 BASE RAL 9002

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture					
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
x ylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤16	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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	≤0.30	Skin Sens. 1, H317 Aquatic Chronic 4, H413 See Section 16 for the full text of the H statements declared	-	[1]

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

English (GB)

Code : 00385222

Date of issue/Date of revision

: 18 August 2022

SIGMAFAST 205 BASE RAL 9002

SECTION 3: Composition/information on ingredients

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

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid m	neasures
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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 eff	<u>icts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any imme	liate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Code	: 00385222	Date of issue/Date of revision	: 18 August 2022
SIGMAFAST	205 BASE RAL 9002		

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 f	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 halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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)	

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

Code : 00385 SIGMAFAST 205 BAS		Date of issue/Date of revision	: 18 August 2022
SECTION 6: Ac	cidental release	e measures	
Large spill	explosion-p sewers, wa treatment p combustibl place in co waste dispo	f without risk. Move containers from spill area proof equipment. Approach the release from ater courses, basements or confined areas. No plant or proceed as follows. Contain and colle e, absorbent material e.g. sand, earth, vermin ntainer for disposal according to local regulat osal contractor. Contaminated absorbent match the spilt product.	upwind. Prevent entry into Wash spillages into an effluent ect spillage with non- culite or diatomaceous earth and tions. Dispose of via a licensed

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. 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: 00385222Date of issue/Date of revision: 18 August 2022

SIGMAFAST 205 BASE RAL 9002

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	EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorbed		
	through skin.		
	STEL: 442 mg/m ³ 15 minutes.		
	STEL: 100 ppm 15 minutes.		
	TWA: 221 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2021).		
	TWA: 152 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
ethylbenzene	EU OEL (Europe, 10/2019). Absorbed through skin.		
•	STEL: 884 mg/m ³ 15 minutes.		
	STEL: 200 ppm 15 minutes.		
	TWA: 442 mg/m ³ 8 hours.		
	TWA: 100 ppm 8 hours.		

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
xy lene	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
epoxy resin (MW ≤ 700)	DNEL	Long term Inhalation	12.25 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General	Systemic
		-		population	-
English (GB)			Europe		7/18

Code : 00385222

Date of issue/Date of revision

: 18 August 2022

SIGMAFAST 205 BASE RAL 9002

SECTION 8: Exposure controls/personal protection

	DNEL	Short term Dermal	3.571 mg/kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	0.75 mg/kg bw/day	[Consumers] General population	Systemic
	DNEL	Short term Oral	0.75 mg/kg bw/day	[Consumers] General population	Systemic
2-methylpropan-1-ol	DNEL DNEL	Long term Inhalation Long term Inhalation	55 mg/m³ 310 mg/m³	[Consumers] General population Workers	Local
ethylbenzene	DNEL DNEL DNEL	Long term Oral Long term Inhalation Long term Inhalation	1.6 mg/kg bw/day 15 mg/m³ 77 mg/m³	General population General population Workers	
trizing his(orthonhosphata)	DNEL DNEL DNEL	Long term Dermal Short term Inhalation	180 mg/kg bw/day 293 mg/m³	Workers Workers Concret population	Systemic Local
trizinc bis(orthophosphate)	DNEL DNEL	Long term Oral Long term Inhalation Long term Inhalation	0.83 mg/kg bw/day 2.5 mg/m³ 5 mg/m³	General population General population Workers	Systemic Systemic
	DNEL DNEL	Long term Dermal Long term Dermal	83 mg/kg bw/day 83 mg/kg bw/day	General population Workers	Systemic Systemic

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
xylene	-	Fresh water	0.327 mg/l	-
-	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
epoxy resin (MW ≤ 700)	-	Fresh water	0.006 mg/l	Assessment Factors
	-	Marine water	0.001 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.156 mg/kg dwt	-
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
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	-
trizinc bis(orthophosphate)	-	Fresh water	20.6 µg/l	Sensitivity Distribution
· · · · ·	-	Marine water	6.1 µg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	100 µg/l	Assessment Factors
	-	Fresh water sediment	117.8 mg/kg dwt	Sensitivity Distribution
	-	Marine water sediment	56.5 mg/kg dwt	Equilibrium Partitioning
	-	Soil	35.6 mg/kg dwt	Sensitivity Distribution

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

Code : 00385222 SIGMAFAST 205 BASE RAL	Date of issue/Date of revision : 18 August 2022 9002
SECTION 8: Exposu	re controls/personal protection
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	: Chemical splash goggles. Use eye protection according to EN 166.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should b worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirat 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.

Code : 00385222	Date of issue/Date of revision	: 18 August 2022	
SIGMAFAST 205 BASE RAL 9002			

SECTION 9: Physical and chemical properties

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

<u>Appearance</u>		1						
Physical state		.iquid.						
Colour		Grey.						
Odour		Aromatic. [Slight]						
Odour threshold		lot available.						
Melting point/freezing point	d	/lay start to solidify a lata for the following alkyl esters, C10-ric	g ingredier	t: 1,2-Be	enzenedio	carboxylic a	acid, di-C9-′	
Initial boiling point and boiling range	: >	•37.78°C						
Flammability	: N	lot available.						
Upper/lower flammability or explosive limits	: 0	Greatest known rang	ge: Lower:	1.7% U	lpper: 10.	9% (2-met	thylpropan-1	I-ol)
Flash point	: 0	Closed cup: 26°C						
Auto-ignition temperature	:							
	Ī	Ingredient name		°C	٩	F	Method	
		1,2-Benzenedicarboxylic C9-11-branched alkyl es		405	76	1	ASTM E 659	
Decomposition temperature	: 3	Stable under recom	mended st	orage ar	nd handlir	ng conditio	ns (see Sec	tion 7).
Н	: N	Not applicable. insol	uble in wa	er.				
/iscosity		Kinematic (room ten Kinematic (40°C): >2		>400 m	ım²/s			
/iscosity	: 3	80 - <40 s (ISO 6mr	n)					
Solubility(ies)	:							
Media		Result						
Media © old water		Not soluble						
Cold water Partition coefficient: n-octanol/	/ : N	Not soluble						
Partition coefficient: n-octanol/ water	/ : N :	Not soluble						
Partition coefficient: n-octanol/ water	′: ► : [Not soluble	Vapou	r Pressi	ure at 20°	°C Va	apour press	sure at 50°C
Fold water Partition coefficient: n-octanol/ water	:	Not soluble	Vapou mm Hg		ure at 20 [°] Method			sure at 50°C Method
Fold water Partition coefficient: n-octanol/ water	:	Not soluble Not applicable.			1	d mm		
Partition coefficient: n-octanol/ vater /apour pressure	:	Not soluble Not applicable.	mm Hg <12	kPa <1.6	Method DIN EN 13016-2	d mm Hg	kPa	Method
Partition coefficient: n-octanol/ vater /apour pressure	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value putyl acetate	mm Hg <12	kPa <1.6	Method DIN EN 13016-2	d mm Hg	kPa	Method
Fold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	: 	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value putyl acetate	mm Hg <12 e: 0.84 (eth e: 15.4 (Ai	kPa <1.6 nylbenze r = 1) (1	Method DIN EN 13016-2 ne) Weig	ghted averagenedicarbo	kPa age: 0.76co xylic acid, d	Method mpared with
Partition coefficient: n-octanol/ water /apour pressure Evaporation rate Relative density /apour density	: 	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.6 Highest known value	mm Hg <12 e: 0.84 (eth e: 15.4 (Ai yl esters, C not explos	kPa <1.6 nylbenze r = 1) (1 :10-rich) ive, but t	Method DIN EN 13016-2 ne) Weig I,2-Benze	ch mm Hg ghted avera enedicarbo red averag	kPa age: 0.76co xylic acid, d e: 4.88 (Air	Method mpared with i- = 1)
Partition coefficient: n-octanol/water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	: 	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value 0-utyl acetate 1.6 Highest known value 29-11-branched alk The product itself is	 mm Hg <12 : 0.84 (eth : 15.4 (Aigle esters, Constant) : not explose air is possi 	kPa <1.6 nylbenze r = 1) (1 210-rich) ive, but t ple.	Method DIN EN 13016-2 ne) Weig I,2-Benze D. Weight the forma	ch mm Hg ghted avera enedicarbo red averag	kPa age: 0.76co xylic acid, d e: 4.88 (Air	Method mpared with i- = 1)
	: 	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value outyl acetate 1.6 Highest known value 29-11-branched alk The product itself is rapour or dust with a	 mm Hg <12 : 0.84 (eth : 15.4 (Aigle esters, Constant) : not explose air is possi 	kPa <1.6 nylbenze r = 1) (1 210-rich) ive, but t ple.	Method DIN EN 13016-2 ne) Weig I,2-Benze D. Weight the forma	ch mm Hg ghted avera enedicarbo red averag	kPa age: 0.76co xylic acid, d e: 4.88 (Air	Method mpared with i- = 1)

Code	: 00385222	Date of issue/Date of revision	: 18 August 2022
SIGMAFAST	205 BASE RAL 9002		

SECTION 9: Physical and chemical properties

Median particle size

: Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stabilit	y 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 halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists		J	
	LD50 Oral	Rat	>5000 mg/kg	-

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

Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Eyes - Mild irritant	Rabbit	-	-	-
Skin - Mild irritant	Rabbit	-	-	-
	Skin - Moderate irritant Eyes - Mild irritant	Skin - Moderate irritant Rabbit Eyes - Mild irritant Rabbit	Skin - Moderate irritant Rabbit - Eyes - Mild irritant Rabbit -	Skin - Moderate irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit

Conclusion/Summary

: There are no data available on the mixture itself.

Code	: 00385222	Date of issue/Date of revision	: 18 August 2022

SIGMAFAST 205 BASE RAL 9002

SECTION 11: Toxicological information

Eyes

: There are no data available on the mixture itself.

- Respiratory
- : There are no data available on the mixture itself.

Sensitisation

Product/ingree	dient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 700)		skin	Mouse	Sensitising
Conclusion/Summary				
Skin	: There are no data avai	ilable on the mixtu	re itself.	
Respiratory	: There are no data avai	ilable on the mixtu	re itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data avai	ilable on the mixtu	re itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data avai	ilable on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data avai	ilable on the mixtu	re itself.	
Teratogenicity				
Conclusion/Summary	: There are no data avai	ilable on the mixtu	re itself.	
Specific target organ toxic	ity (single exposure)			

<u>ecific target organ toxicity (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
xylene 2-methylpropan-1-ol	Category 3 Category 3 Category 3		Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Produ	ct/ingredient name	Result		
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Information on likely routes of exposure	: Not available.			
Potential acute health ef	<u>fects</u>			
Inhalation	: No known significant effects or critical hazards.			
Ingestion	: No known significant effe	: No known significant effects or critical hazards.		
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.			
Eye contact	: Causes serious eye irritation.			
Symptoms related to the	physical, chemical and toxic	ological characteristics		
Inhalation	: No specific data.			
Ingestion	: No specific data.			

ode : 00385222	Date of issue/Date of revision : 18 August 2022
IGMAFAST 205 BASE R	AL 9002
SECTION 11: Toxi	cological information
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate	effects as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effe	cts : Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effe	cts : Not available.
Potential chronic health	<u>effects</u>
Not available.	
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

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

Code: 00385222Date of issue/Date of revision: 18 August 2022

SIGMAFAST 205 BASE RAL 9002

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
poxy resin (MW ≤ 700) ethylbenzene	OECD 301F -	5 % - 28 days 79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<mark>x</mark> ylene epoxy resin (MW ≤ 700)	-	-	Readily Not readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	low
epoxy resin (MW ≤ 700) 2-methylpropan-1-ol	3	31 -	low
ethylbenzene	3.6	79.43	low

12.4 Mobility in soil

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

Eng	lish ((GB)

Code	: 00385222	Date of issue/Date of revision	: 18 August 2022
OLONAFAOT			

SIGMAFAST 205 BASE RAL 9002

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	taken when h Empty contai residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be nandling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. yeld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

14. Transport information

				i
	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	II	111	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.

English (GB)

	0385222 5 BASE RAL 9002	Date of issue/Date of re	revision : 18 August 2022
14. Transp	oort informatio	า	
Tunnel code	: (D/E)		
ADN			rdous substance when transported in tank lation in packagings up to 450 L according
		liquid is not subject to regulation in pa	ackagings up to 450 L according to 2.3.2.
ΙΑΤΑ	: None identified.		
14.6 Special pre user	upright		transport in closed containers that are nsporting the product know what to do in
14.7 Maritime tra bulk according t instruments	-	blicable.	
SECTION 1	5: Regulatory inf	ormation	
15.1 Safety, hea	Ith and environmental	egulations/legislation specific for th	the substance or mixture
	(EC) No. 1907/2006 (RE		
Annex XIV - L	ist of substances subje	ct to authorisation	
Annex XIV			
	components are listed.		
	of very high concern		
	components are listed.		
Annex XVII - F	•	blicable	
on the manuf	•		
placing on the			
and use of ce			
dangerous su			
mixtures and			
Ozone depletin Not listed.	ng substances (1005/20	<u>09/EU)</u>	
Seveso Directi	ve		
	controlled under the Se	veso Directive.	
Danger crite			
Category			
P5c			

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

Code : 00385222	Date of issue/Date of revision	: 18 August 2022
SIGMAFAST 205 BASE RAL 9002		
SECTION 16: Other information		

JN 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

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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.

Full text of classifications [CLP/GHS]

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
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -
	Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3

History

Date of issue/ Date of	: 18 August 2022
revision	
Date of previous issue	: 11 March 2022

English (GB)

	00385222 5 BASE RAL 9002	Date of issue/Date of revision	: 18 August 2022
SECTION 16: Other information			
Prepared by	: EHS		
Version	: 1.01		

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.