SAFETY DATA SHEET

SIGMADUR 550 BASE RAL 9010



Date of issue 11 September 2024

Version 2

1. Product and company identification			
Product name	: SIGMADUR 550 BASE RAL 9010		
Product code	: 00444124		
Product type	: Liquid.		
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	: Not applicable.		
Supplier's details	: ₱ PG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777		
Emergency telephone number	: 078 574 2777		

2. Hazards identification

GHS Classification	 AMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -
<u>GHS label elements</u> Hazard pictograms	Category 2
Signal word	: Danger

2. Hazards identification

Hazard statements	 Mammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs)
	Causes damage to organs through prolonged or repeated exposure. (hearing organs, nervous system, respiratory organs) Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain special instructions before use. 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. 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.
Other hazards which do not	: Prolonged or repeated contact may dry skin and cause irritation.

result in classification

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

	-
CAS number	: Not applicable.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
X ylene	20 - <25	1330-20-7	3-3; 3-60
Titanium dioxide (excluding nanoparticle)	20 - <25	13463-67-7	1-558; 5-5225
Butyl acetate	5 - <7	123-86-4	2-731
Ethyl Benzene	3 - <5	100-41-4	3-28; 3-60
Talc (containing no asbestos or quartz)	2 - <3	14807-96-6	Not available.
Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy-	1 - <2	55349-01-4	2-3055
Ethylene glycol mono-n-butyl ether	0.2 - <0.5	111-76-2	2-2424; 2-407; 7-97
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.2 - <0.5	41556-26-7	5-5501
Silica	0.2 - <0.5	7631-86-9	1-548
	1	Japa	an Page: 2/16

Product code 00444124 Date of issue 11 September 2024			r Version 2	
Product name SIGMADUR 550 BASE RAL 9010				
3. Composition/information	on ingredient	s		
Cyclohexanone	0.1 - <0.2	108-94-1	3-2376	
Zirconium oxide	0.1 - <0.2	1314-23-4	1-563	
propylidynetrimethanol	0.1 - <0.2	77-99-6	2-245	

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Description of necessa	ary first aid measures
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effect		
Eye contact	auses serious eye irritation.	
Inhalation	an cause central nervous system (CNS) depression. May cause drows zziness.	siness or
Skin contact	auses damage to organs following a single exposure in contact with sk kin irritation. Defatting to the skin. May cause an allergic skin reaction	
Ingestion	auses damage to organs following a single exposure if swallowed. Ca entral nervous system (CNS) depression.	in cause
Over-exposure signs/symp		
Eye contact	dverse symptoms may include the following: ain or irritation atering edness	
Inhalation	dverse symptoms may include the following: ausea or vomiting eadache rowsiness/fatigue zziness/vertigo nconsciousness educed fetal weight crease in fetal deaths keletal malformations	
Skin contact	dverse symptoms may include the following: itation edness yness racking educed fetal weight crease in fetal deaths keletal malformations	

Product code 00444124		Date of issue 11 September 2024	Version 2
Product name SIGMADUR	550 BASE RAL 901	10	
4. First aid measu	ires		
Ingestion	reduced fetal increase in feta skeletal malfor	tal deaths	
Notes to physician	: In case of inha	alation of decomposition products in a fire, symptor person may need to be kept under medical surveilla	
Specific treatments	: No specific tre	eatment.	
Protection of first-aiders	is suspected tl mask or self-c providing aid t	Ill be taken involving any personal risk or without su that fumes are still present, the rescuer should wea contained breathing apparatus. It may be dangerou to give mouth-to-mouth resuscitation. Wash contar th water before removing it, or wear gloves.	r an appropriate is to the person

See toxicological information (Section 11)

5. Fire-fighting m	easures
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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 toxic 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	on appropriate personal protective equipment.

6. Accidental release measures

For emergency responders	: If specialized clothing is required to deal with the spillage, take	e note of any
	information in Section 8 on suitable and unsuitable materials.	See also the
	information in "For non-emergency personnel".	

Environmental precautions : Avoid dispersal of spilled 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. Collect spillage.

Methods and materials 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 disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe : 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 handling this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

Conditions for safe storage : 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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

ngredient name	Exposure limits
Kylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m ³ 8 hours.
Titanium dioxide (excluding nanoparticle)	Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide] OEL-M: 1.5 mg/m ³ , (as Ti) 8 hours. Form: Respirable particulate matter OEL-M: 2 mg/m ³ , (as Ti) 8 hours. Form: Total particulate matter Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide (nanoparticle)] OEL-M: 0.3 mg/m ³ 8 hours. Form: nanoparticle
Butyl acetate	Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 475 mg/m ³ 8 hours. OEL-M: 100 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 150 ppm 8 hours.
Ethyl Benzene	Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 87 mg/m ³ 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.
Talc (containing no asbestos or quartz)	Japan Society for Occupational Health (Japan, 5/2023). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)] OEL-M: 0.5 mg/m ³ 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m ³ 8 hours. Form: Total dust (Class 1 Dust)
Ethylene glycol mono-n-butyl ether	Industrial Safety and Health Act (Japan, 6/2020). TWA: 25 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-C: 97 mg/m ³ OEL-C: 20 ppm
Cyclohexanone	Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 100 mg/m ³ 8 hours. OEL-M: 25 ppm 8 hours.

Version 2

8. Exposure controls/personal protection

		Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.
Recommended monitoring procedures		propriate monitoring standards. Reference to methods for the determination of hazardous
Appropriate engineering controls	or other engineering controls to ke below any recommended or statu	n. Use process enclosures, local exhaust ventilation eep worker exposure to airborne contaminants tory limits. The engineering controls also need to ations below any lower explosive limits. Use nent.
Environmental exposure controls	they comply with the requirements	k process equipment should be checked to ensure s of environmental protection legislation. In some engineering modifications to the process equipment ions to acceptable levels.
Individual protection measu	res	
Hygiene measures	eating, smoking and using the lav Appropriate techniques should be Contaminated work clothing shou	horoughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. Id not be allowed out of the workplace. Wash sing. Ensure that eyewash stations and safety ion location.
Eye protection	: Chemical splash goggles.	
Skin protection		
Hand protection	be worn at all times when handlin	oves complying with an approved standard should g chemical products if a risk assessment indicates e parameters specified by the glove manufacturer.

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.

- 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.
- **Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- **Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9. Physical and chemical properties

Solubility(ies)	: cold water	Result Not soluble	
	Media	Deput	
Relative density	: 1.36		
Flash point	: Closed cup: 25°C (77°F)		
Boiling point	: >37.78°C (>100°F)		
Color	: White.		
Physical state	: Liquid.		
<u>Appearance</u>			

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
X ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
. ,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
Ethyl Benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Ethylene glycol mono-n- butyl ether	LC50 Inhalation Vapor	Rat	3 mg/l	4 hours
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
			Japan	Page: 8/16

Date of issue 11 September 2024

Product name SIGMADUR 550 BASE RAL 9010

11. Toxicological information

4-piperidyl) sebacate				
Silica	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		
Cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
X ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Ethylene glycol mono-n- butyl ether	Eyes - Irritant	Rabbit	-	24 hours	21 days
	Skin - Moderate irritant	Rabbit	-	4 hours	28 days

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Kylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Butyl acetate	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs
Ethylene glycol mono-n-butyl ether	Category 1	-	blood system, kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Silica	Category 3	-	Respiratory tract irritation
Cyclohexanone	Category 1	-	respiratory system
	Category 2		central nervous system (CNS)
	Category 3		Narcotic effects
		Ja	apan Page: 9/10

11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
X ylene	Category 1	-	nervous system, respiratory organs
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs
Ethylene glycol mono-n-butyl ether	Category 1	-	blood system
Silica	Category 1	-	immune system, kidneys, respiratory organs
Cyclohexanone	Category 1	-	bones, central nervous system (CNS)

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effe	<u>cts</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	:	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
<u>Symptoms related to the p</u> Eye contact Inhalation	:	Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following:
		nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

11. Toxicological information

Older a sector of	
Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
	dryness
	cracking
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	 Adverse symptoms may include the following: reduced fetal weight
	increase in fetal deaths
	skeletal malformations

Delayed and immediate effects and also chronic effects 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 eff	<u>zts</u>	
General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatit Once sensitized, a severe allergic reaction may occur when subsequently expose to very low levels.	tis.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: May damage fertility or the unborn child.	

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMADUR 550 BASE RAL 9010	N/A	6177.6	N/A	37.2	N/A
Xylene	4300	1700	N/A	11	N/A
Butyl acetate	10768	N/A	N/A	N/A	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
Ethylene glycol mono-n-butyl ether	1200	300	N/A	0.5	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
Cyclohexanone	1800	300	N/A	3	N/A
propylidynetrimethanol	14000	10000	N/A	N/A	N/A

Other information

\$

Date of issue 11 September 2024

Product name SIGMADUR 550 BASE RAL 9010

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 vapor/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.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
✔ tanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Ethylene glycol mono-n-butyl	Acute LC50 1474 mg/l	Fish	96 hours
ether			
	Chronic NOEC >100 mg/l	Fish	21 days
Silica	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum	
Butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		83 % - Readily - 28 days -			-
Ethyl Benzene	-	79 % - Readily - 10 days		-		-	
Product/ingredient name	Aquatic half-life	Photolysis		Biodegrada		radability	
✓ylene Butyl acetate Ethyl Benzene Ethylene glycol mono-n-butyl ether					Readily Readily Readily Readily	/ /	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
Butyl acetate	2.3	-	Low
Ethyl Benzene	3.6	79.43	Low
Ethylene glycol mono-n-butyl	0.81	-	Low
ether			
Cyclohexanone	0.86	-	Low
propylidynetrimethanol	-0.47	-	Low

Mobility in soil

Soil/water partition	
coefficient (Koc)	
Mobility	

: Not available.

: Not available.

Date of issue 11 September 2024

Version 2

Product name SIGMADUR 550 BASE RAL 9010

12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods 1 The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

- : None identified. UN IMDG : None identified. : None identified.
- ΙΑΤΑ
- **Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
<mark>K</mark> ylene	23		80
Ethylbenzene	4.0		53

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

Ingredient name	%		Reference number
ethyl benzene	≤10	Special Organic Solvents	3-3

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
▼yleneTitanium(IV) oxideButyl acetateEthylbenzeneCrystalline silica	≥20 - ≤30	Listed	136
	≥20 - ≤30	Listed	191
	≤10	Listed	181
	≤10	Listed	70
	≤10	Listed	165-2

Chemicals requiring notification

Ingredient name	%	Status	Reference number
X ylene	≥20 - ≤30	Listed	136
Titanium(IV) oxide	≥20 - ≤30	Listed	191
Butyl acetate	≤10	Listed	181
Ethylbenzene	≤10	Listed	70
Ethylene glycol mono-n-butyl ether	≤10	Listed	79
Crystalline silica	≤10	Listed	165-2
Cyclohexanone	≤10	Listed	231

Carcinogens based on Article 577-2 of the Ordinance on ISH

Ingredient name	%		Reference number
sílicon dioxide	≤10	Listed	-

Mutagen

None of the components are listed.

Corrosive liquid

: Not listed

Occupational Safety and Health Law

: Inflammable

15. Regulatory information

Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Class 2

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
X ylene	≥20 - ≤30	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
2-Butoxyethanol	≤10	Priority assessment	109
Cyclohexanone	≤10	Priority assessment	131
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
2,2,4,4,6,6,8,8-Octamethyl-	≤10	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane			
Cumene	≤10	Priority assessment	126
Acetaldehyde	≤10	Priority assessment	26
Formaldehyde	≤10	Priority assessment	25
Ethylene oxide	≤10	Priority assessment	19
1,4-Dioxane	≤10	Priority assessment	80
Chloromethane	≤10	Priority assessment	6

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea None of the components are listed.

Container class

None of the components are listed.

16. Other information

Road law

: 11 September 2024
: 6/23/2021
: 2
: EHS
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

Indicates information that has changed from previously issued version.

: Not available.

Notice to reader

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 PPG, 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.