SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



13 December 2024 Date of issue/Date of revision

Version 1.05

13	Dec	enno	024

Section 1. Chem	ical product and company identification
Product code	: 00427114
Product name	: SIGMADUR 520 BASE RAL 7010
Product name	: SIGMADUR 520 BASE RAL 7010
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	: PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857
Emergency telephone number (with hours of operation)	: 00 86 532 83889090

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview

Liquid. Gray. Aromatic. [Strong] Flammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Prolonged or repeated contact may dry skin and cause irritation.

IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. If skin irritation occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

See Section 12 for environmental precautions.

Section 2. Hazard	ds identification
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 59.5% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 62.2%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 55.9%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Flammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Toxic to aquatic life. Harmful 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 explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. 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: Call a POISON CENTER or doctor if you feel unwell. If skin irritation 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.
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Section 2. Hazards identification

Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	:	Flammable liquid and vapor.
Health hazards	:	Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Prolonged or repeated contact may dry skin and cause irritation.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact		Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	1	No specific data.
Delayed and immediate effec	ts	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects Long term exposure	1	Not available.
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Environmental hazards	:	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.
Section 3. Compos	si	tion/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number

: Not applicable.

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Alc , not containing asbestiform fibres	10 - <25	14807-96-6
xylene isomers mixture	10 - <25	1330-20-7
Solvent naphtha (petroleum), light aromatic	1 - <10	64742-95-6
1,2,4-trimethylbenzene	1 - <10	95-63-6
ethylbenzene	1 - <10	100-41-4
2-methoxy-1-methylethyl acetate	1 - <10	108-65-6
12-hydroxyoctadecanoic acid, reaction products with	1 - <10	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.1 - <1	41556-26-7
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - <1	82919-37-7

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.

Section 4. First aid measures

Description of necess	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

	China Bago: 4/4
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Over-exposure signs/s	
Ingestion	: No known significant effects or critical hazards.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Eye contact	: Causes serious eye irritation.
Potential acute health	effects

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Section 4. First aid measures

Ingestion

: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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. 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen 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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

inadequate. Put on appropriate personal protective equipment.	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.
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Section 6. Accidental release measures

For emergency responders	: If specialized 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".
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.
Methods and materials for con	ntainment 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.

Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). 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 vapor 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.
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 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name			Exposure limits			
F alc , not containing asbestif	orm	n fibres	GBZ 2.1 (China, 11/2022)			
-			PC-TWA 8 hours: 3 mg/m ³ . Form: total			
			dust.			
			PC-TWA 8 hours: 1 mg/m ³ . Form:			
			respirable dust.			
xylene			GBZ 2.1 (China, 11/2022) [Xylene]			
			PC-TWA 8 hours: 50 mg/m ³ .			
			PC-STEL 15 minutes: 100 mg/m ³ .			
1,2,4-trimethylbenzene			ACGIH TLV (United States, 7/2023)			
- the dia a second a			TWA 8 hours: 10 ppm.			
ethylbenzene			GBZ 2.1 (China, 11/2022)			
			PC-TWA 8 hours: 100 mg/m ³ .			
12 hydroxycotadocanoic acid	l rc	paction products with	PC-STEL 15 minutes: 150 mg/m ³ . ACGIH TLV (United States)			
12-hydroxyoctadecanoic acid 1,3-benzenedimethanamine			TWA: 10 mg/m ³ . Form: Inhalable particle.			
	anc	nexametrylenediamine	TWA: 10 mg/m ³ (inhalable dust). Form:			
			Respirable particle.			
Recommended monitoring	- 1		riate monitoring standards. Reference to			
procedures		national guidance documents for methods for the determination of hazardous substances will also be required.				
		substances will also be required.				
Appropriate engineering	1	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne				
controls		contaminants below any recommended or statutory limits. The engineering controls				
		also need to keep gas, vapor or dust concentrations below any lower explosive				
		limits. Use explosion-proof ventilation				
Environmental exposure			ocess equipment should be checked to ensure			
controls	÷.	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.				
			e emissions to acceptable levels.			
			e emissions to acceptable levels.			
dividual protection measur						
dividual protection measur Hygiene measures			bughly after handling chemical products, befor			
•		eating, smoking and using the lavator	bughly after handling chemical products, befor y and at the end of the working period.			
•		eating, smoking and using the lavator Appropriate techniques should be use	bughly after handling chemical products, befor y and at the end of the working period. Ind to remove potentially contaminated clothing			
•		eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re	oughly after handling chemical products, befor y and at the end of the working period. d to remove potentially contaminated clothing eusing. Ensure that eyewash stations and			
Hygiene measures	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re safety showers are close to the works	oughly after handling chemical products, befor y and at the end of the working period. d to remove potentially contaminated clothing eusing. Ensure that eyewash stations and			
Hygiene measures Eye protection	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re	bughly after handling chemical products, befor y and at the end of the working period. I to remove potentially contaminated clothing busing. Ensure that eyewash stations and			
Hygiene measures Eye protection <u>Skin protection</u>	:	eating, smoking and using the lavator, Appropriate techniques should be use Wash contaminated clothing before re safety showers are close to the works Chemical splash goggles.	oughly after handling chemical products, befor y and at the end of the working period. In the end of the working period.			
Hygiene measures Eye protection	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re safety showers are close to the works Chemical splash goggles. Chemical-resistant, impervious gloves	oughly after handling chemical products, before y and at the end of the working period. In the remove potentially contaminated clothing seasing. Ensure that eyewash stations and tation location.			
Hygiene measures Eye protection <u>Skin protection</u>	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re- safety showers are close to the works Chemical splash goggles. Chemical-resistant, impervious gloves be worn at all times when handling ch	oughly after handling chemical products, befor y and at the end of the working period. I to remove potentially contaminated clothing ousing. Ensure that eyewash stations and tation location.			
Hygiene measures Eye protection <u>Skin protection</u>	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re- safety showers are close to the works Chemical splash goggles. Chemical-resistant, impervious gloves be worn at all times when handling ch this is necessary. Considering the pa	bughly after handling chemical products, before y and at the end of the working period. In the remove potentially contaminated clothing busing. Ensure that eyewash stations and tation location. Is complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer			
Hygiene measures Eye protection <u>Skin protection</u>	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re- safety showers are close to the works Chemical splash goggles. Chemical-resistant, impervious gloves be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are sp	bughly after handling chemical products, before y and at the end of the working period. In the remove potentially contaminated clothing busing. Ensure that eyewash stations and tation location. The complying with an approved standard should emical products if a risk assessment indicate rameters specified by the glove manufacturer still retaining their protective properties. It			
Hygiene measures Eye protection <u>Skin protection</u>	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re- safety showers are close to the works Chemical splash goggles. Chemical-resistant, impervious gloves be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	bughly after handling chemical products, befor y and at the end of the working period. Id to remove potentially contaminated clothing eusing. Ensure that eyewash stations and tation location. Is complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer still retaining their protective properties. It through for any glove material may be			
Hygiene measures Eye protection <u>Skin protection</u>	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re- safety showers are close to the works Chemical splash goggles. Chemical-resistant, impervious gloves be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break different for different glove manufacture	bughly after handling chemical products, before y and at the end of the working period. In the case of mixtures, consisting of			
Hygiene measures Eye protection <u>Skin protection</u>	:	eating, smoking and using the lavator Appropriate techniques should be use Wash contaminated clothing before re- safety showers are close to the works Chemical splash goggles. Chemical-resistant, impervious gloves be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	bughly after handling chemical products, before y and at the end of the working period. In the case of mixtures, consisting of			

Section 8. Exposure controls/personal protection

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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.

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	1	Gray.	
Odor	1	Aromatic. [Strong]	
Boiling point	1	>37.78°C (>100°F)	
Flash point	:	Closed cup: 34°C (93.2°	F)
Lower and upper explosive (flammable) limits	:	Not available.	
Relative density	:	1.22	
Colubility/ico)		Media	Result
Solubility(ies)			
oolubility(ics)	1	cold water	Not soluble
Viscosity		cold water Øynamic (room tempera Kinematic (room tempera Kinematic (40°C): >21 m	ture): Not available. ature): >400 mm²/s

Section 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.

Product code 00427114

Product name SIGMADUR 520 BASE RAL 7010

Section 10. Stability and reactivity

Hazardous decomposition products

Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

Section 11. Toxicological information

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Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
vlene isomers mixture	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
12-hydroxyoctadecanoic acid, reaction products with	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
1,3-benzenedimethanamine and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene isomers mixture	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2 Category 2	- inhalation	- Iungs

Aspiration hazard

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

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : Not available. effects Potential delayed effects : Not available.

Product name SIGMADUR 520 BASE RAL 7010 Section 11. Toxicological information

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Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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)
GMADUR 520 BASE RAL 7010	10472.9	3056.0	N/A	18.0	2.2
xylene isomers mixture	4300	1700	N/A	11	1.5
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
2-methoxy-1-methylethyl acetate	6190	N/A	N/A	30	N/A
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3125	N/A	N/A	N/A	N/A

Other information

Folonged or repeated contact may dry skin and cause irritation. 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.

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours

Section 12. Ecological information

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and hexamethylenediamine			
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> <i>(Water flea)</i>	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Ethylbenzene 2-methoxy-1-methylethyl acetate 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301D Ready Biodegradability - Closed Bottle Test	83 % - Rea 9 % - Not r	adily - 10 days adily - 28 days eadily - 29 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
ylene isomers mixture ethylbenzene 2-methoxy-1-methylethyl acetate	-		-	Readily Readily Readily		ý

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Vylene isomers mixture 1,2,4-trimethylbenzene ethylbenzene 2-methoxy-1-methylethyl acetate 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	3.12 3.63 3.6 1.2 >6	7.4 to 18.5 120.23 79.43 - -	Low Low Low Low High

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: 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.

Section 14. Transport information

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

Additional information

CN	: None identified.	
UN	 This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1. 	
IMDG	 This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. 	
ΙΑΤΑ	: None identified.	
Special pred	cautions for user : Transport within user's premises; always transport in closed containers that are	

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

Section 15. Regulatory information

China inventory (IECSC)	: All components are listed or exempted.
References	 Production Safety Law of the People's Republic of China Code of Occupational Disease Prevention of the People's Republic of China Environmental Protection Law of the People's Republic of China Fire Control Law of the People's Republic of China Regulations on the Control over Safety of Dangerous Chemicals Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1) General rule for classification and hazard communication of chemicals (GB13690) Safety data sheet for chemical products - Content and order of sections (GB/ T16483) Guidance on the compilation of safety data sheet for chemical products (GB/ T17519) General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 13 December 2024
Date of previous issue	: 4/4/2024
Version	: 1.05 EHS
Key to abbreviations	 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 the	at has changed from previously issued version

✓ Indicates information that has changed from previously issued version.

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.