SAFETY DATA SHEET



Date of issue/Date of revision 7 May 2020 Version 3

Section 1. Identification		
Product code	: 00315257	
Product name	: SIGMADUR 520 BASE RAL 1023	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	of the substance or mixture and uses advised against	
Product use	: Coating. Paint. Painting-related materials.	
Supplier's details	: PPG Coatings (Thailand) Co., Ltd. 15 Rama 9 Road, Kwaeng Huamark, Khet Bangkapi, Bangkok 10240 Thailand T: 662-319-4190 #224 F: 662-319-4189	
Emergency telephone number (with hours of operation)	: CHEMTREC 001-800-13-203-9987 (CCN 17704)	

Section 2. Hazards identification

Classification of the substance or mixture	 Image: Additional and the matrix of the matr
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 58.8%

GHS label elements

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Warning
Hazard statements	 Fammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life.
Precautionary statements	
Prevention	: Wear protective gloves. Wear protective clothing. Wear 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. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.
Response	INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. 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 in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable. **Ingredient name** % **CAS** number xylene 25- <50 1330-20-7 20- <25 barium sulfate 7727-43-7 Talc , not containing asbestiform fibres 5- <10 14807-96-6 n-butyl acetate 5- <10 123-86-4 ethylbenzene 5- <10 100-41-4 bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 0.1- < 0.3 41556-26-7 toluene 0.1- < 0.3 108-88-3

There are no 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.

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Section 3. Composition/information on ingredients

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 necessary 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 effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: M ay be harmful in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>ns</u>
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.
Indication of immediate medic	al attention and special treatment needed, if necessary
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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Section 4. First aid measures

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 harmful to aquatic life. 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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency proceduresFor 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.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".

Section 6. Accidental release measures

Environmental precautions	1	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 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.

Section 7. Handling and storage

Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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
x ylene		Ministry of Labor (Thailand, 8/2017).
barium sulfate		TWA: 100 ppm 8 hours. Ministry of Labor (Thailand, 8/2017). TWA: 5 mg/m ³ 8 hours. Form: Respirable dust TWA: 15 mg/m ³ 8 hours. Form: inhalable
Talc , not containing asbestiform fibres		dust Ministry of Labor (Thailand, 8/2017). TWA: 0.1 fibres/1 cc 8 hours. Form: Respirable dust TWA: 2 mg/m ³ 8 hours. Form: Respirable dust
n-butyl acetate		ACGIH TLV (United States, 3/2019). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
ethylbenzene		Ministry of Labor (Thailand, 8/2017). TWA: 100 ppm 8 hours.
toluene		Ministry of Labor (Thailand, 8/2017). CEIL: 300 ppm STEL: 500 ppm 10 minutes. TWA: 200 ppm 8 hours.
Recommended monitoring	If this product contains ingra	
	atmosphere or biological m of the ventilation or other co protective equipment. Refe standards. Reference to na	edients with exposure limits, personal, workplace conitoring may be required to determine the effectiveness pontrol measures and/or the necessity to use respiratory erence should be made to appropriate monitoring ational guidance documents for methods for the s substances will also be required.
orocedures Appropriate engineering	 atmosphere or biological m of the ventilation or other co protective equipment. Refe standards. Reference to na determination of hazardous Use only with adequate ven or other engineering contro below any recommended o keep gas, vapor or dust cor 	nonitoring may be required to determine the effectiveness ontrol measures and/or the necessity to use respiratory erence should be made to appropriate monitoring ational guidance documents for methods for the s substances will also be required. Intilation. Use process enclosures, local exhaust ventilation is to keep worker exposure to airborne contaminants or statutory limits. The engineering controls also need to incentrations below any lower explosive limits. Use
procedures Appropriate engineering controls Environmental exposure	 atmosphere or biological m of the ventilation or other co protective equipment. Refe standards. Reference to na determination of hazardous Use only with adequate ven or other engineering contro below any recommended o keep gas, vapor or dust cor explosion-proof ventilation of they comply with the require cases, fume scrubbers, filte 	conitoring may be required to determine the effectiveness ontrol measures and/or the necessity to use respiratory erence should be made to appropriate monitoring ational guidance documents for methods for the s substances will also be required. In tilation. Use process enclosures, local exhaust ventilation is to keep worker exposure to airborne contaminants or statutory limits. The engineering controls also need to incentrations below any lower explosive limits. Use
procedures Appropriate engineering controls Environmental exposure controls	 atmosphere or biological m of the ventilation or other co protective equipment. Refe standards. Reference to na determination of hazardous Use only with adequate ven or other engineering contro below any recommended o keep gas, vapor or dust cor explosion-proof ventilation of they comply with the require cases, fume scrubbers, filte will be necessary to reduce 	conitoring may be required to determine the effectiveness ontrol measures and/or the necessity to use respiratory erence should be made to appropriate monitoring ational guidance documents for methods for the s substances will also be required. In tilation. Use process enclosures, local exhaust ventilation is to keep worker exposure to airborne contaminants or statutory limits. The engineering controls also need to incentrations below any lower explosive limits. Use equipment. For work process equipment should be checked to ensure ements of environmental protection legislation. In some ers or engineering modifications to the process equipment
procedures Appropriate engineering controls Environmental exposure controls Idividual protection measu Hygiene measures	 atmosphere or biological m of the ventilation or other co protective equipment. Refe standards. Reference to na determination of hazardous Use only with adequate ven or other engineering contro below any recommended o keep gas, vapor or dust cor explosion-proof ventilation of they comply with the require cases, fume scrubbers, filte will be necessary to reduce Wash hands, forearms and eating, smoking and using f Appropriate techniques sho 	 anonitoring may be required to determine the effectiveness on trol measures and/or the necessity to use respiratory erence should be made to appropriate monitoring ational guidance documents for methods for the substances will also be required. antilation. Use process enclosures, local exhaust ventilation is to keep worker exposure to airborne contaminants or statutory limits. The engineering controls also need to necentrations below any lower explosive limits. Use equipment. betor work process equipment should be checked to ensure ements of environmental protection legislation. In some ers or engineering modifications to the process equipment emissions to acceptable levels. I face thoroughly after handling chemical products, before the lavatory and at the end of the working period. build be used to remove potentially contaminated clothing. Ig before reusing. Ensure that eyewash stations and
procedures Appropriate engineering controls Environmental exposure controls	 atmosphere or biological m of the ventilation or other co protective equipment. Refe standards. Reference to na determination of hazardous Use only with adequate ven or other engineering contro below any recommended o keep gas, vapor or dust cor explosion-proof ventilation of they comply with the require cases, fume scrubbers, filte will be necessary to reduce Wash hands, forearms and eating, smoking and using the Appropriate techniques sho Wash contaminated clothin 	 anonitoring may be required to determine the effectiveness on trol measures and/or the necessity to use respiratory erence should be made to appropriate monitoring ational guidance documents for methods for the substances will also be required. antilation. Use process enclosures, local exhaust ventilation is to keep worker exposure to airborne contaminants or statutory limits. The engineering controls also need to necentrations below any lower explosive limits. Use equipment. b) or work process equipment should be checked to ensure ements of environmental protection legislation. In some ers or engineering modifications to the process equipment emissions to acceptable levels. c) face thoroughly after handling chemical products, before the lavatory and at the end of the working period. c) build be used to remove potentially contaminated clothing. c) g before reusing. Ensure that eyewash stations and

Section 8. Exposure controls/personal protection

Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber Recommended: polyvinyl alcohol (PVA), Viton®
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

Appearance	
Physical state	: Liquid.
Color	: Yellow.
Odor	: Aromatic.
Odor threshold	: Not available.
рН	: insoluble in water.
Melting point	: May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -95.5°C (-139.9°F)
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 24°C (75.2°F)
Evaporation rate	: Highest known value: 1 (n-butyl acetate) Weighted average: 0.81compared with butyl acetate
Flammability (solid, gas)	: liquid
Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)
Vapor pressure	: Ħghest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 1.02 kPa (7.65 mm Hg) (at 20°C)

Section 9. Physical and chemical properties

Vapor density	: Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.74 (Air = 1)
Relative density	: 1.25
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Lowest known value: 415°C (779°F) (n-butyl acetate).
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).
Viscosity	: Kinematic (40°C): >0.21 cm²/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.
Hazardous decomposition products	 Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
n-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	-
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	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	LD50 Oral	Rat	3.125 g/kg	-
sebacate				
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours

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Section 11. Toxic	olo	ogical informat	ion				
		LD50 Dermal LD50 Oral		Rabbit Rat	8.39 g/kg 5580 mg/kg	-	
Conclusion/Summary	: Th	ere are no data available	e on the mixtur	e itself.			
Irritation/Corrosion							
Product/ingredient name	R	esult	Species	Score	Exposure	Observation	
x ylene	S	kin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary							
Skin	: Th	ere are no data available	e on the mixtur	e itself.			
Eyes	: Th	There are no data available on the mixture itself.					
Respiratory	: Th	There are no data available on the mixture itself.					
<u>Sensitization</u>							
Conclusion/Summary							
Skin	: Th	There are no data available on the mixture itself.					
Respiratory	: Th	here are no data available on the mixture itself.					
<u>Mutagenicity</u>							
Conclusion/Summary	: Th	here are no data available on the mixture itself.					
Carcinogenicity							
Conclusion/Summary	: Th	ere are no data available	e on the mixtur	e itself.			
Reproductive toxicity							
Conclusion/Summary	: Th	ere are no data available	e on the mixtur	e itself.			
Teratogenicity			· ····				
Conclusion/Summary	: Th	ere are no data available	e on the mixtur	e itself.			
Specific target organ toxic	itv (s	ingle exposure)					

Name	Category	Route of exposure	Target organs
✓lene Talc , not containing asbestiform fibres n-butyl acetate toluene	Category 3 Category 3 Category 3 Category 3	- - -	Respiratory tract irritation Respiratory tract irritation Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	•••	Route of exposure	Target organs
· •	Category 2	-	hearing organs
toluene	Category 2	-	-

Aspiration hazard

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

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Section 11. Toxicological information

Information on the likely routes of exposure	:	Not available.
Potential acute health effects	5	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	\overline{M} ay 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 phy	sic	cal, 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 effect	ts	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects Long term exposure	:	Not available.
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Øral	12384.84 mg/kg
Dermal	2460.06 mg/kg
Inhalation (vapors)	22.04 mg/l
Inhalation (dusts and mists)	2.83 mg/l

Other information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Section 12. Ecological information

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		LV	
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Product/ingredient name	Result	Species	Exposure
p -butyl acetate ethylbenzene	Acute LC50 18 mg/l Acute LC50 150 to 200 mg/l Fresh water	Fish Fish	96 hours 96 hours
Conclusion/Summary	: There are no data available on the	mixture itself.	

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-

Conclusion/Summary

: There are no data available on the mixture itself.

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene n-butyl acetate ethylbenzene toluene	- - - -	- - -	Readily Readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
n-butyl acetate	1.78	-	low
ethylbenzene	3.15	79.43	low
toluene	2.73	8.32	low

Mobility in soil

Other adverse effects : No known significant effects or critical hazards	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

	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

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Section 14 Transport information

Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

UN	: None identified.
IMDG	: None identified.
IATA	: None identified.

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.

Section 15. Regulatory information

Harmful Chemicals List

- : Listed
- Safety, health and environmental regulations specific for the product
- : No known specific national and/or regional regulations applicable to this product (including its ingredients).

International regulations

Montreal Protocol

Not listed.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 7 May 2020
Date of previous issue	: 1/16/2020
Version	: 3
Prepared by	: 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)

Section 16. Other information

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

V 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.