SAFETY DATA SHEET



Date of issue 3/20/2021 (month/day/year)

Version 8

Section 1. Chemical product and company identification

Α.	Product name	1	SIGMADUR 550 BASE CS518-69
	Product code	4	00371466

B. Relevant identified uses of the substance or mixture and uses advised against

	Product use Use of the substance/ mixture		Professional applications, Used by spraying. Coating.
	Uses advised against	:	Product is not intended, labelled or packaged for consumer use.
C.	Supplier's information	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
	Email Address		Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8222

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
A. Hazara classification	
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is clossified in a	according with the Industrial Sofety and Health Act and the Chamical Control Act

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol



Signal word

: Danger

Date of issue 3/20/2021 (month/day/year)

Product name SIGMADUR 550 BASE CS518-69

Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	i de la constante d
Prevention	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in classification	: P rolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
X ylene	XYLENES	CAS: 1330-20-7	20 - <30
n-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	1 - <5
iron hydroxide oxide yellow	IRON HYDROXIDE OXIDE	CAS: 51274-00-1	1 - <5
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	1 - <5
Octadecanamide, N,N'-1,6-hexanediylbis	N,N-1,6-HEXANEDIYLBIS	CAS: 55349-01-4	1 - <5
[12-hydroxy-	(12-HYDROXY-OCTADECANEIMIDE)		
Solvent naphtha (petroleum), light	ŠOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	1 - <5
		Korea (GHS)	Page: 2/16

Section 3. Composition/information on ingredients

	<u> </u>		
aromatic	LIGHT AROMATIC		
2-butoxyethanol	2-BUTOXY ETHANOL	CAS: 111-76-2	0.1 - <1
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	0.1 - <1
sebacate	SEBACATE		
2-Propenoicacid,2-ethylhexylester,	2-Propenoicacid,2-ethylhexylester,	CAS: 398475-96-2	0.1 - <1
reactionproductswithethylenediamine-	reactionproductswithethylenediamine-		
ethyleniminepolymer,compds.	ethyleniminepolymer,compds.		
withpolyethylene-	withpolyethylene-		
polypropyleneglycolmono-	polypropyleneglycolmono-		
Buetherphosphate	Buetherphosphate		
cyclohexanone	CYCLOHEXÁNONE	CAS: 108-94-1	0.1 - <1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Α.	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.
В.	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.
C.	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.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	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	4	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

Α.	Extinguishing media	
	Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	: Do not use water jet.

Section 5. Fire-fighting measures

Β.	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 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
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Fire-fighting procedures	:	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.

Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	-	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.
B. 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.
C. Methods and materials for	co	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

Α.	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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing 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.
R	Conditions for safe	: Store between the following temperatures: 0 to 35°C (32 to 95°E). Store in

B. 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

A. Occupational exposure limits

Ingredient name	Exposure limits
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 3/2019).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
iron hydroxide oxide yellow	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 5 mg/m³, (as Fe) 8 hours. Form:
	Fume
	TWA: 5 mg/m³, (as Fe) 8 hours.
2-butoxyethanol	Ministry of Employment and Labor
-	(Republic of Korea, 1/2020). Absorbed
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Section 8. Exposure controls/personal protection

	•		• •		
	cyclohexanone			through skin. TWA: 20 ppm 8 hours. Ministry of Employment and Labo (Republic of Korea, 1/2020). Absor through skin. TWA: 25 ppm 8 hours. STEL: 50 ppm 15 minutes.	r bed
	Recommended monitoring procedures		If this product contains ingredients with atmosphere or biological monitoring ma of the ventilation or other control measu protective equipment. Reference shoul standards. Reference to national guida determination of hazardous substances	by be required to determine the effect ires and/or the necessity to use respi d be made to appropriate monitoring nce documents for methods for the	iveness
В.	Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering contral also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			controls
	Environmental exposure controls		Emissions from ventilation or work proc they comply with the requirements of en cases, fume scrubbers, filters or engine equipment will be necessary to reduce e	nvironmental protection legislation. In pering modifications to the process	
C .	Personal protective equip	ome	nt		
	Respiratory protection	:	Respirator selection must be based on hazards of the product and the safe wo workers are exposed to concentrations appropriate, certified respirators. Use a respirator complying with an approved necessary.	orking limits of the selected respirator above the exposure limit, they must a properly fitted, air-purifying or air-fe	. If use d
	Eye protection		Chemical splash goggles.		
	Hand protection	:	Chemical-resistant, impervious gloves be worn at all times when handling che this is necessary. Considering the para check during use that the gloves are st should be noted that the time to breakt different for different glove manufacture several substances, the protection time estimated.	mical products if a risk assessment in ameters specified by the glove manual ill retaining their protective properties hrough for any glove material may be ers. In the case of mixtures, consisting	ndicates facturer, . It
	Gloves	:	øutyl rubber		
	Body protection	:	Personal protective equipment for the being performed and the risks involved before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include ant	l and should be approved by a specia ere is a risk of ignition from static elec r the greatest protection from static	list
	Hygiene measures	:	Wash hands, forearms and face thorous before eating, smoking and using the la Appropriate techniques should be used Contaminated work clothing should not contaminated clothing before reusing. showers are close to the workstation lo	ughly after handling chemical product avatory and at the end of the working I to remove potentially contaminated t be allowed out of the workplace. We Ensure that eyewash stations and sa	period. clothing. ash
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Product name SIGMADUR 550 BASE CS518-69

Section 9. Physical and chemical properties

A. Appearance	
Physical state	: Liquid.
Color	: Red.
B. Odor	: Characteristic.
C. Odor threshold	: Not available.
D. pH	: Not applicable.
E. Melting/freezing point	: Not available.
F. Boiling point/boiling range	: >37.78°C (>100°F)
G. Flash point	: Closed cup: 25°C (77°F)
H. Evaporation rate	: Not available.
I. Flammability (solid, gas)	: Not available.
J. Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)
K. Vapor pressure	: Not available.
L. Solubility	: Insoluble in the following materials: cold water.
Solubility in water	: Not available.
M. Vapor density	: Not available.
N. Relative density	: 1.21
O. Partition coefficient: n- octanol/water	: Not available.
P. Auto-ignition temperature	: Not available.
Q. Decomposition temperature	: Not available.
R. Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
S. Molecular weight	: Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	-	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

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Product name SIGMADUR 550 BASE CS518-69

Section 11. Toxicological information

Α.	Information on the like routes of exposure	y : Not available.
Po	otential acute health eff	ects
	Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	Ingestion	: Can cause central nervous system (CNS) depression.
	Skin contact	: 🖉 auses skin irritation. Defatting to the skin. May cause an allergic skin reaction.
	Eye contact	: Causes serious eye irritation.
<u>0</u>	ver-exposure signs/syn	iptoms
	Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Ingestion	: No specific data.
	Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
	Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

B. Health hazards

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	-
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	-
iron hydroxide oxide yellow	LC50 Inhalation Dusts and	Rat	>5.05 mg/l	4 hours
	mists		-	
	LD50 Oral	Rat	>10 g/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
2-butoxyethanol	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat - Male	1480 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
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Product code 00371466	Date of issu	Date of issue 3/20/2021 (month/day/year)		
Product name SIGMADUR	550 BASE CS518-69			
Section 11. Toxic	ological information			
cyclohexanone	LC50 Inhalation Gas. LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	8000 ppm 11 mg/l 1100 mg/kg 1.54 g/kg	4 hours 4 hours - -

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Vylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
2-butoxyethanol	Skin - Moderate irritant Eyes - Irritant	Rabbit Rabbit	-	4 hours 24 hours	28 days 21 days
Conclusion/Summary		1			
Skin :	There are no data available	on the mixture i	itself.		
Eyes :	There are no data available	on the mixture i	itself.		
Respiratory :	There are no data available	on the mixture i	itself.		
	There are no data available o There are no data available o				
<u>Mutagenicity</u> Conclusion/Summary :	There are no data available c	on the mixture it	self.		
Carcinogenicity Conclusion/Summary :	There are no data available of	on the mixture i	tself.		
Reproductive toxicity Conclusion/Summary :	There are no data available	on the mixture	itself.		
Teratogenicity Conclusion/Summary	There are no data available	on the mixture	itsolf		

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

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-Propenoicacid,2-ethylhexylester, reactionproductswithethylenediamine-ethyleniminepolymer, compds.withpolyethylene-polypropyleneglycolmono- Buetherphosphate	Category 3	-	Respiratory tract irritation

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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
₩ylene	Category 1		central nervous system (CNS), kidneys, liver

Aspiration hazard

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

Potential chronic health effects

General	: Zauses damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity Reproductive toxicity	: No known significant effects or critical hazards. : № known significant effects or critical hazards.

Additional 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.

Chemical name	Common name	CAS #	GHS Classification
₩ylene	XYLENES	1330-20-7 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category ACUTE TOXICITY (inhalation) - Categ SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICIT (SINGLE EXPOSURE) (Narcotic effect Category 3 SPECIFIC TARGET ORGAN TOXICIT (REPEATED EXPOSURE) - Category	
n-butyl acetate	N-BUTYL ACETATE	123-86-4	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethylbenzene	ETHYLBENZENE	100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2
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Section 11. Toxicological information

asbestiform fibres iron hydroxide oxide yellow 2-methoxy-1-methylethyl acetate Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy- Solvent naphtha (petroleum), light aromatic	c, non-asbestos form DN HYDROXIDE OXIDE IETHOXY-2-PROPYL ETATE I-1,6-HEXANEDIYLBIS -HYDROXY- TADECANEIMIDE) LVENT NAPHTHA ETROLEUM), LIGHT OMATIC	14807-96-6 51274-00-1 108-65-6 55349-01-4 64742-95-6	ASPIRATION HAZARD - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 Not classified. FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 4
2-methoxy-1-methylethyl acetate1-MI ACEOctadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-N,N- (12-I OCTSolvent naphtha (petroleum), light aromaticSOL (PET	IETHOXY-2-PROPYL ETATE I-1,6-HEXANEDIYLBIS -HYDROXY- TADECANEIMIDE) LVENT NAPHTHA ETROLEUM), LIGHT	108-65-6 55349-01-4	Not classified. FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 4
Octadecanamide, N, N'-1,6-hexanediylbis (12-l [12-hydroxy- OCT Solvent naphtha (petroleum), light aromatic (PE ⁻	I-1,6-HEXANEDIYLBIS -HYDROXY- TADECANEIMIDE) LVENT NAPHTHA ETROLEUM), LIGHT		(SINGLE EXPOSURE) (Narcotic effects) - Category 3 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 4
N'-1,6-hexanediylbis (12- [12-hydroxy- OCT Solvent naphtha (petroleum), light aromatic (PE	-HYDROXY- TADECANEIMIDE) LVENT NAPHTHA TROLEUM), LIGHT		AQUATIC HAZARD (LONG-TERM) - Category 4
(petroleum), light aromatic (PE	TROLEUM), LIGHT	64742-95-6	Category 4
(petroleum), light aromatic (PE	TROLEUM), LIGHT		FLAMMABLE LIQUIDS - Category 3
			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
2-butoxyethanol 2-BL	UTOXY ETHANOL	111-76-2	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 CARCINOGENICITY - Category 2
	; NTAMETHYLPIPERIDYL) BACATE	41556-26-7	SKIN SENSITIZATION - Category 1
			AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
2-ethylhexylester, reactionproductswithethylenediamine- ethyleniminepolymer, compds.withpolyethylene- polypropyleneglycolmono-	ropenoicacid, thylhexylester, tionproductswithethylenediamine- yleniminepolymer, npds.withpolyethylene- ypropyleneglycolmono- etherphosphate	398475-96-2	SKIN CORROSION/IRRITATION - Category 2
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY
			(SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) -
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Section 11. Toxicological information

			Category 1
cyclohexanone	CYCLOHEXANONE	108-94-1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION -
			Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 GERM CELL MUTAGENICITY - Category 2

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure	
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours	
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours	
iron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours	
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours	
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours	
2-butoxyethanol	Acute LC50 1474 mg/l	Fish	96 hours	
-	Chronic NOEC >100 mg/l	Fish	21 days	

B. <u>Persistence and degradability</u>

Product/ingredient name	Test	Result		Dose		Inoculum
p-butyl acetate	TEPA and OECD 301D			-	-	
2-methoxy-1-methylethyl acetate	-	83 % - Rea	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
Kylene n-butyl acetate ethylbenzene 2-methoxy-1-methylethyl acetate	- - -		- - -		Readily Readily Readily Readily	/ /
2-butoxyethanol	-		-		Readily	1

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.16	7.4 to 18.5	low
n-butyl acetate	1.78	-	low
ethylbenzene	3.15	79.43	low
2-methoxy-1-methylethyl acetate	0.56	-	low
2-butoxyethanol cyclohexanone	0.81 0.81	-	low low

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Section 12. Ecological information

D. <u>Mobility in soil</u>

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

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

Section 13. Disposal considerations

- A. 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.
- B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

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

Additional information

- UN: None identified.IMDG: None identified.IATA: None identified.
- F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

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Section 14. Transport information

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	1	Not applicable.
to IMO instruments		

Section 15. Regulatory information

A. Regulation according to ISHA **ISHA article 117** : None of the components are listed. (Harmful substances prohibited from manufacture) **ISHA article 118** : None of the components are listed. (Harmful substances requiring permission) **Article 2 of Youth Protection** : It is not allowed to sell to persons under the age of 19. Act on Substances Hazardous to Youth Exposure Limits of Chemical Substances and Physical Factors The following components have an OEL: **X**ylene n-butyl acetate ethylbenzene Talc, not containing asbestiform fibres iron hydroxide oxide yellow 2-butoxyethanol cyclohexanone **ISHA Enforcement Regs** : The following components are listed: cyclohexanone Annex 19 (Exposure standards established for harmful factors) **ISHA Enforcement Regs** 2 The following components are listed: xylene, n-butyl acetate, ethyl benzene, talc; Annex 21 (Harmful soapstone, iron oxide factors subject to Work **Environment Measurement**) ISHA Enforcement Regs : The following components are listed: Xylene, Ethyl benzene, Iron oxide Annex 22 (Harmful **Factors Subject to Special Health Check**up) **Standard of Industrial** : The following components are listed: xylene, n-butyl acetate, ethyl benzene, iron and its compounds Safety and Health Annex 12 (Hazardous substances subject to control)

B. <u>Regulation according to Chemicals Control Act</u>

CCA Article 11 (TRI)

: The following components are listed: Xylene including o-,m-,p- isomer, Barium and its compounds, Ethylbenzene

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Section 15. Regulatory information

	CCA Article 18 Prohibited (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 19 Subject to authorization (K- Reach Article 25)	:	None of the components are listed.
	CCA Article 20 Restricted (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	CCA Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to c	oth	<u>er foreign laws</u>
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

Α.	References	:	Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.
В.	Date of issue/Date of revision	:	3/20/2021
С.	Version	:	8
	Prepared by	:	EHS
D.	Other		

✓ Indicates information that has changed from previously issued version.

Disclaimer

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Section 16. Other information

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.