SAFETY DATA SHEET



Date of issue 2/5/2024 (month/day/year)

Version 24

Section 1. Chemical product and company identification

 A. Product name Product code
 : SIGMAPRIME 200 K BASE ALUMINIUM YELLOW

 : 00330751

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

Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Importer'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:	: <mark>⊭</mark> 82-52-210-8331

Section 2. Hazards identification

A. Hazard clas	sification : 🗗	MMABLE LIQUIDS - Category 3
	SK	N IRRITATION - Category 2
	EYI	E IRRITATION - Category 2A
	SK	N SENSITIZATION - Category 1
	CA	RCINOGENICITY - Category 1A
		ECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
		ation) - Category 3
	SPI	ECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
		JATIC HAZARD (LONG-TERM) - Category 3
		, , ,

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

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Section 2. Hazards identification

Hazaro	I statements	7226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction.	
		H319 - Causes serious eye irritation.	
		H335 - May cause respiratory irritation.	
		H350 - May cause cancer.	
		H373 - May cause damage to organs through prolonged or repeated exposure	э.
		central nervous system (CNS), kidneys, liver)	
		H412 - Harmful to aquatic life with long lasting effects.	
Precau	itionary statements		
Preve	ention	 202 - Do not handle until all safety precautions have been read and understore 280 - Wear protective gloves, protective clothing and eye or face protection. 210 - Keep away from heat, hot surfaces, sparks, open flames and other ign sources. No smoking. 2241 - Use explosion-proof electrical, ventilating or lighting equipment. 2242 - Use non-sparking tools. 2243 - Take action to prevent static discharges. 2273 - Avoid release to the environment. 2260 - Do not breathe vapor. 2264 - Wash thoroughly after handling. 	
Resp	onse	 308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unv 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 mir Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. 	
Stora	ge	403 + P233 - Store in a well-ventilated place. Keep container tightly closed. 403 + P235 - Keep cool.	
Dispo	osal	P501 - Dispose of contents and container in accordance with all local, regiona national and international regulations.	ll,
not res	hazards which do sult in ication	Frolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or du cure at curing temperatures greater than 60C (140F).	ring

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
vystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	10 -<20
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</td><td>CAS: 25036-25-3</td><td>10 -<20</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	5 - <10
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	1 - <5
iron hydroxide oxide	IRON HYDROXIDE OXIDE	CAS: 20344-49-4	1 - <5
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Section 3. Composition/information on ingredients

PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	1 - <5
ETHER		
Phenol, methylstyrenated	CAS: 68512-30-1	1 - <5
SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-88-7	1 - <5
MEDIUM ALIPHATIC		
1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
ETHYLBENZENE	CAS: 100-41-4	1 - <5
UREA-FORMALDEHYDE RESIN,	CAS: 68002-19-7	1 - <5
BUTYLATED		
ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
4-METHYLPENTAN-2-ONE / METHYL	CAS: 108-10-1	0.1 - <1
ISOBUTYL KETONE		
NAPHTHALENE	CAS: 91-20-3	0.1 - <1
	ETHER Phenol, methylstyrenated SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC 1,2,4-TRIMETHYL BENZENE ETHYLBENZENE UREA-FORMALDEHYDE RESIN, BUTYLATED ISOBUTYL ALCOHOL 4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	ETHER Phenol, methylstyrenatedCAS: 68512-30-1 CAS: 64742-88-7SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATICCAS: 64742-88-71,2,4-TRIMETHYL BENZENE ETHYLBENZENECAS: 95-63-6 CAS: 100-41-4UREA-FORMALDEHYDE RESIN, BUTYLATEDCAS: 68002-19-7ISOBUTYL ALCOHOL ISOBUTYL KETONECAS: 78-83-1 CAS: 108-10-1

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.
Ε.	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	1	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)

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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.
В.	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 metal oxide/oxides Formaldehyde.
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	÷	Avoid dispersal of spilled material and runoff and contact with soil, waterways,

B. Environmental precautions i 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 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.

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Section 6. Accidental release measures

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
в.	Conditions for safe storage, including any	: 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

storage, including any incompatibilities 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	
erystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m ³ 8 hours. Form: Respirable fraction	
Talc , not containing asbestiform fibres	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m ³ 8 hours. Form: fibers	
Aluminium powder (stabilized)	Ministry of Employment and Labor (Republic of Korea, 1/2020).	
Xylene	TWA: 10 mg/m ³ 8 hours. Form: Dust Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)]	
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Section 8. Exposure controls/personal protection

	1-methoxy-2-propanol			STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes.
	Solvent naphtha (petroleur	n),	medium aliph.	TWA: 100 ppm 8 hours. ACGIH TLV (United States).
	1,2,4-trimethylbenzene			TWA: 400 ppm Ministry of Employment and Labor (Republic of Korea, 1/2020). [Trimethyl
	ethylbenzene			benzene (mixed isomers)] TWA: 25 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes.
	2-methylpropan-1-ol			TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020).
	4-methylpentan-2-one			TWA: 50 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 75 ppm 15 minutes.
	naphthalene			TWA: 50 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.
	Recommended monitoring procedures	:		ate monitoring standards. Reference to ods for the determination of hazardous
В.	Appropriate engineering controls	:		s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls	:		
C.	Personal protective equip)m	ent	
	Respiratory protection		Respirator selection must be based or hazards of the product and the safe w workers are exposed to concentrations appropriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed I standard if a risk assessment indicates this is
	Eye protection	:	Chemical splash goggles.	

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Section 8. Exposure controls/personal 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	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

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

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	Solubility in water	:	Not available.						
			cold water	No	t soluble	е			
L.	Solubility(ies)	Media Result							
			2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
K.	Vapor pressure	1		Vapo	r Press	ure at 20°C	Vapor pressure at 50°C		sure at 50°C
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	ge: Lower:	1.48%	Upper: 13.74	·% (1-me	thoxy-2-p	ropanol)
Т.	Flammability (solid, gas)	:	Not available.	lot available.					
н.	Evaporation rate	:	Not available.						
G.	Flash point	:	Closed cup: 29°C (8	4.2°F)					
F.	Boiling point/boiling range	:	>37.78°C (>100°F)						
Ε.	Melting/freezing point	1	Not available.						
D.	рН	1	Not applicable.						
C.	Odor threshold	:	Not available.						
В.	Odor		Aromatic.						
	Color		Yellow.						
	Physical state	1.1	Liquid.						

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Section 9. Physical and chemical properties

Vapor density: Not available.M.Relative density: 1.46N.Partition coefficient: n-
octanol/water: Not applicable.Auto-ignition:

P. Auto-ignition temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), medium aliph.	>220	>428	ASTM E 659

Q. Decomposition temperature

Viscosity

R.

S.

: Not available.

-
- : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
- Flow time (ISO 2431) : Not available.
- 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 Formaldehyde. metal oxide/oxides

Section 11. Toxicological information

- A. Information on the likely
- : Not available.

routes of exposure

Potential acute health effects

Inhalation	May cause respiratory irritation.
Ingestion	No known significant effects or critical hazards.
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Over-exposure signs/syn	<u>ptoms</u>
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	No specific data.

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Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
✓ Poxy Resin (700 <mw<=1100)< p=""></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Xylene	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	-
iron hydroxide oxide	LC50 Inhalation Dusts and mists	Rat	>20 mg/l	4 hours
	LD50 Oral	Rat - Male	>10000 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
, , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Solvent naphtha (petroleum), medium aliph.	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>5000 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
2	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
, , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
•	LD50 Oral	Rat	490 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

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Section 11. Toxicological information

		0				
Product/ingredient name		Result	Species	Score	Exposure	Observation
X ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500	-
					mg	
Conclusion/Summary						
Skin	: Т	here are no data available or	n the mixture its	self.		
Eyes	: Т	here are no data available or	n the mixture its	self.		
Respiratory	: Т	here are no data available or	n the mixture its	self.		
SensitizationConclusion/SummarySkin: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.						
<u>Mutagenicity</u> Conclusion/Summary :	Tł	nere are no data available on	the mixture its	elf.		
Carcinogenicity Conclusion/Summary	: TI	here are no data available or	n the mixture its	self.		
Reproductive toxicity Conclusion/Summary	: т	here are no data available or	n the mixture its	self.		
<u>Teratogenicity</u> Conclusion/Summary	: т	here are no data available or	n the mixture its	self.		
Specific target organ toxic	ity (<u>single exposure)</u>				

Classification Name **Route of Target organs** exposure Valc , not containing asbestiform fibres Category 3 Respiratory tract irritation Xylene Category 3 Narcotic effects Solvent naphtha (petroleum), light aromatic Category 3 Narcotic effects 1-methoxy-2-propanol Category 3 Narcotic effects Solvent naphtha (petroleum), medium aliph. Category 3 Narcotic effects 1,2,4-trimethylbenzene Category 3 Respiratory tract irritation Respiratory tract 2-methylpropan-1-ol Category 3 irritation Category 3 Narcotic effects 4-methylpentan-2-one Category 3 Respiratory tract irritation Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

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Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Kylene	Category 1		central nervous system (CNS), kidneys, liver
Solvent naphtha (petroleum), medium aliph.	Category 1		central nervous system (CNS)

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), medium aliph.	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

Potential chronic health effects

General	: May cause 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 Mutagenicity Reproductive toxicity	 May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.

Additional information

Folonged 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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
vystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Aluminium powder (stabilized)	CAS: 7429-90-5	FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE
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Solvent naphtha (petroleum), light	CAS: 64742-95-6	EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 3
aromatic		SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
iron hydroxide oxide 1-methoxy-2-propanol	CAS: 20344-49-4 CAS: 107-98-2	Not classified. FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3
Solvent naphtha (petroleum), medium aliph.	CAS: 64742-88-7	FLAMMABLE LIQUIDS - Category 3
1,2,4-trimethylbenzene	CAS: 95-63-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
ethylbenzene	CAS: 100-41-4	AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	AQUATIC HAZARD (LONG-TERM) - Category 4
2-methylpropan-1-ol	CAS: 78-83-1	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
4-methylpentan-2-one	CAS: 108-10-1	EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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Section 11. Toxicological information

naphthalene	
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CAS: 91-20-3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
iron hydroxide oxide	Acute LC50 >100 mg/l	Fish	96 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
€thylbenzene 4-methylpentan-2-one	- OECD 301F		adily - 10 days adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene ethylbenzene 4-methylpentan-2-one	- -		- -		Readily Readily Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
Phenol, methylstyrenated	3.627	-	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
ethylbenzene	3.6	79.43	Low
2-methylpropan-1-ol	1	-	Low
4-methylpentan-2-one	1.9	-	Low
naphthalene	3.4	85.11	Low

D. <u>Mobility in soil</u> Soil/water partition coefficient (K_{oc})

: Not available.

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

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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

	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
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

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

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Section 15. Regulatory information

Α.	Regulation according to I	<u>S</u>	<u>IA</u>
	ISHA article 117 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	:	None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	It is not allowed to sell to persons under the age of 19.
	Exposure Limits of Chem	ica	Il Substances and Physical Factors
	The following components rystalline silica, respirable Talc, not containing asbes Aluminium powder (stabiliz Xylene 1-methoxy-2-propanol Solvent naphtha (petroleur 1,2,4-trimethylbenzene ethylbenzene 2-methylpropan-1-ol 4-methylpentan-2-one naphthalene	e p stif zeo m)	owder (<10 microns) orm fibres 1) , medium aliph.
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: quartz, talc / soapstone, aluminum and its compounds, xylene, iron oxide, ethyl benzene, isobutyl alcohol
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Aluminum and its compounds, Xylene, Iron oxide (dust, fume), Ethyl benzene, Isobutyl alcohol
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: aluminum and its compounds, xylene, iron and its compounds, ethyl benzene, isobutyl alcohol
В.	Regulation according to C	Ch	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Aluminium and its compounds, Xylene including o-,m-,p- isomer, Ethylbenzene, Naphthalene
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.

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Section 15. Regulatory information

	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	1	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	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 o	oth	er foreign laws
	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

A. 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.
B. Date of issue/Date of revision	: 2/5/2024
C. Version	: 24
Prepared by	: EHS

D. Other

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by 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.