SAFETY DATA SHEET



Date of issue 11/19/2024 (month/day/year)

Version 2.02

Section 1. Chemical product and company identification

Α.	Product name	: HI-TEMP 1027 LT GR
	Product code	: 00426756

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	1	Product is not intended, labelled or packaged for consumer use.
C.	Supplier's or Importer's information Email Address	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8331

Section 2. Hazards identification

A. Hazard classification	 FLAMMABLE LIQUIDS - Category 2 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2 This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.
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B. GHS label elements, including precautionary statements

Symbol



Signal word:Hazard statements:

- : Danger
- ements : H225 Highly flammable liquid and vapor.
 - H351 Suspected of causing cancer.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - (central nervous system (CNS), kidneys, liver)
 - H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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Product name HI-TEMP 1027 LT GR

Section 2. Hazards identification

	Prevention	:	 202 - Do not handle until all safety precautions have been read and understood. 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. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P240 - Ground and bond container and receiving equipment. P233 - Keep container tightly closed. P273 - Avoid release to the environment. P260 - Do not breathe vapor.
	Response	:	 P391 - Collect spillage. P370 + P378 - In case of fire: Never use water to extinguish. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	Storage	:	P403 + P235 - Store in a well-ventilated place. 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	:	Prolonged 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	%
Solvent naphtha (petroleum), heavy arom.	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	CAS: 64742-94-5	5 - <10
		EC: 265-198-5	
Mica-group minerals	MICA	CAS: 12001-26-2	5 - <10
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
		EC: 236-675-5	
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
		EC: 215-535-7	
dimethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	1 - <5
		EC: 210-478-4	
trizinc bis(orthophosphate)	ZINC ORTHOPHOSPHATE	CAS: 7779-90-0	1 - <5
		EC: 231-944-3	
zinc oxide	ZINC OXIDE	CAS: 1314-13-2	1 - <5
		EC: 215-222-5	
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
-		EC: 202-849-4	
naphthalene	NAPHTHALENE	CAS: 91-20-3	1 - <5
•		EC: 202-049-5	
Toluene	TOLUENE	CAS: 108-88-3	0.1 - <1
		EC: 203-625-9	
octamethylcyclotetrasiloxane	OCTAMETHYLCYCLOTETRASILOXANE	CAS: 556-67-2	<0.1
		EC: 209-136-7	
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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.

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	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

A .	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	:	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	•	Decomposition products may include the following materials: carbon oxides phosphorus oxides halogenated compounds metal oxide/oxides Formaldehyde.

Section 5. Fire-fighting measures

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. Collect spillage.
C. Methods and materials for	СС	ontainment 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

A. Precautions for safe handling
 Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not 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.

Section 7. Handling and storage

Β.	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.
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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
Mica-group minerals	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 3 mg/m³. Form: Respirable
	fraction.
titanium dioxide	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 10 mg/m ³ .
Xylene	ISHA Article 42 (Republic of Korea,
	1/2020) [Xylene]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
zinc oxide	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 10 mg/m ³ .
	TWA 8 hours: 5 mg/m ³ .
	TWA 8 hours: 2 mg/m³. Form: Respirable
	dust.
ethylbenzene	ISHA Article 42 (Republic of Korea,
,	1/2020)
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 100 ppm.
naphthalene	ISHA Article 42 (Republic of Korea,
•	1/2020) Absorbed through skin.
	STEL 15 minutes: 15 ppm.
	TWA 8 hours: 10 ppm.
Toluene	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 50 ppm.
Recommended : Reference should	d be made to appropriate monitoring standards. Reference to
	e documents for methods for the determination of hazardous
substances will a	
Appropriate engineering : Use only with ad	equate ventilation. Use process enclosures, local exhaust
	er engineering controls to keep worker exposure to airborne
	low any recommended or statutory limits. The engineering contro

limits. Use explosion-proof ventilation equipment.

also need to keep gas, vapor or dust concentrations below any lower explosive

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Section 8. Exposure controls/personal protection

	Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
C .	Personal protective equi	pme	ent
	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.
	Eye protection	1	Safety glasses with side shields.
	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: May be used: nitrile rubber Recommended: Chloroprene, 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.
	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. 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.

Α.	Appearance	
	Physical state	: Liquid.
	Color	: Gray.
В.	Odor	: Aromatic. [Slight]
C .	Odor threshold	: Not available.
D.	рН	: Not applicable.
Ε.	Melting/freezing point	: Not available.
F.	Boiling point/boiling range	: >37.78°C (>100°F)
G.	Flash point	: Closed cup: 18°C (64.4°F)

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Section 9. Physical and chemical properties

: Not available.

: Not available.

H. Evaporation rate

- I. Flammability (solid, gas) : Not available.
- J. Lower and upper explosive (flammable) limits
- K.

K. Vapor pressure			Vapo	r Press	ure at 20°C	Va	por press	ure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		dimethyl carbonate	56.78	7.6	OECD 104			
L. Solubility(ies)		Media Result						
	- i	cold water Not soluble						
Solubility in water	:	Not available.						
Vapor density	:	Not available.						
Relative density	1	1.93						
•. Partition coefficient: n- octanol/water	:	Not applicable.						
P. Auto-ignition temperature	:							
		Ingredient name		°C	°F		Method	
		Solvent naphtha (petrole arom.	um), heavy	220 to 3	250 428 to	482	ASTM E 659	
Q. Decomposition	:	Not available.				·		
Viscosity R.	:	Dynamic (room temp Kinematic (room tem Kinematic (40°C (104	nperature)	: Not av	ailable.			
Flow time (ISO 2431)	:	Not available.						
S. Molecular weight	:	Not applicable.						

Section 10. Stability and reactivity

	-	-
Chemical stability	1	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 phosphorus oxides halogenated compounds Formaldehyde. metal oxide/oxides
	Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous	Possibility of hazardous:reactions:Conditions to avoid:Incompatible materials:Hazardous:

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Section 11. Toxicological information

A. Information on the likely : Not available. routes of exposure

Potential acute health effects

- Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Skin contact : Defatting to the skin. May cause skin dryness and irritation.
- : No known significant effects or critical hazards. Eye contact

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Eye contact	: No specific data.

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), heavy	LC50 Inhalation Dusts and	Rat	>5.2 mg/l	4 hours
arom.	mists		Ŭ	
	LD50 Oral	Rat	>5 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
, ,	LD50 Oral	Rat	4.3 g/kg	-
dimethyl carbonate	LC50 Inhalation Vapor	Rat	140000 mg/m ³	4 hours
-	LD50 Dermal	Rabbit	2.5 g/kg	-
	LD50 Oral	Rat	12.9 g/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/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	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
octamethylcyclotetrasiloxane	LC50 Inhalation Vapor	Rat	36 g/m³	4 hours
	LD50 Dermal	Rat	>2375 mg/kg	-
	LD50 Oral	Rat	>4800 mg/kg	-

conclusion/Summary i nere are no data available on the mixture itself.

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Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			·		
Skin :	There are no data available	on the mixture i	tself.		
Eyes :	There are no data available	on the mixture i	tself.		
Respiratory :	There are no data available	on the mixture i	tself.		
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin :	There are no data available o	n the mixture its	self		
	There are no data available o				
Respiratory .			5011.		
<u>Mutagenicity</u> Conclusion/Summary :	There are no data available o	on the mixture it	self.		
<u>Carcinogenicity</u> Conclusion/Summary :	There are no data available	on the mixture i	tself.		
Reproductive toxicity Conclusion/Summary :	There are no data available	on the mixture i	itself.		
<u>Teratogenicity</u> Conclusion/Summary :	There are no data available	on the mixture i	itself.		

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Solvent naphtha (petroleum), heavy arom. Xylene dimethyl carbonate	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation
Toluene	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver
Toluene	Category 2	-	-

Aspiration hazard

Section 11. Toxicological information

Name	Result
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1

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.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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. 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
Solvent naphtha (petroleum), heavy arom.	CAS: 64742-94-5	FLAMMABLE LIQUIDS - Category 4
	EC: 265-198-5	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Mica-group minerals	CAS: 12001-26-2	Not classified.
titanium dioxide	CAS: 13463-67-7 EC: 236-675-5	CARCINOGENICITY - Category 2
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
,	EC: 215-535-7	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
dimethyl carbonate	CAS: 616-38-6	FLAMMABLE LIQUIDS - Category 2
	EC: 210-478-4	
	EC. 210-478-4	EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
	0.4.0. 7770.00.0	Category 3
trizinc bis(orthophosphate)	CAS: 7779-90-0	AQUATIC HAZARD (ACUTE) - Category 1
	EC: 231-944-3	AQUATIC HAZARD (LONG-TERM) - Category 1
zinc oxide	CAS: 1314-13-2	AQUATIC HAZARD (ACUTE) - Category 1
	EC: 215-222-5	AQUATIC HAZARD (LONG-TERM) - Category 1
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
	EC: 202-849-4	ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
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Section 11. Toxicological information

		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
naphthalene	CAS: 91-20-3	FLAMMABLE SOLIDS - Category 2
	EC: 202-049-5	ACUTE TOXICITY (oral) - Category 4
		CARCINOGENICITY - Category 2
Toluene	CAS: 108-88-3	FLAMMABLE LIQUIDS - Category 2
	EC: 203-625-9	SKIN IRRITATION - Category 2
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
octamethylcyclotetrasiloxane	CAS: 556-67-2	FLAMMABLE LIQUIDS - Category 3
	EC: 209-136-7	TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (LONG-TERM) - Category 1

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
dimethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
octamethylcyclotetrasiloxane	Chronic NOEC 100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene ethylbenzene Toluene	- -		-		Readily Readily Readily	

C. Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	-	High
Xylene	3.12	7.4 to 18.5	Low
dimethyl carbonate	0.354	-	Low
ethylbenzene	3.6	79.43	Low
naphthalene	3.4	85.11	Low
Toluene	2.73	8.32	Low
octamethylcyclotetrasiloxane	6.488	-	High

D. Mobility in soil

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

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

Section 13. Disposal considerations

Α.	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.
В.	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	IATA
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	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
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Section 1	4. Transport informa	ation		
E. Marine pollutant substances	Not applicable.	(Solvent naphtha (petroleum), heavy aromatic)	Not applicable.	
Additional info	mation			
UN	: None identified.			
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.			

: The marine p	ollutant mark is not r	equired when trans	ported in sizes of ≤5 L o	or ≤5 kg.
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: The environmentally hazardous substance mark may appear if required by other transportation regulations.

F. Special precaution which a user to be aware of or needs to comply with in connection with transport or tranportation

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

ΙΑΤΑ

Section 15. Regulatory information

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Α.	Regulation according to I	Regulation according to ISHA		
	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 Chemical Substances and Physical Factors		I Substances and Physical Factors		
	The following components have an OEL:		ave an OEL:	
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	The following components are listed: toluene	
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: mica, titanium dioxide, xylene, zinc oxide, ethyl benzene	
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: mica, Xylene, Zinc oxide, Ethyl benzene	

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Section 15. Regulatory information

	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)		The following components are listed: mica, titanium dioxide, xylene, zinc and its compounds, zinc and its compounds, ethyl benzene		
В.	Regulation according to	Che	emicals Control Act		
	Article 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Zinc and its compounds, Zinc and its compounds, Ethylbenzene, Naphthalene		
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.		
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.		
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.		
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable		
	Korea inventory	:	At least one component is not listed.		
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.		
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 2. Class 1 petroleums - Water-insoluble liquid Threshold: 200 L Danger category: II 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.		
Е.	Regulation according to other 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. First issue date	: 1/26/2021
C. Date of issue/Date of revision	: 11/19/2024
D. Version	: 2.02
Prepared by	: EHS
E. Other	

Section 16. Other information

Indicates information that has changed from previously issued version.

<u>Disclaimer</u>

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.