SAFETY DATA SHEET



Date of issue 5/22/2021 (month/day/year)

Version 14.02

Section 1. Chemical product and company identification

A. Product name : HI-TEMP 1027 LIGHT GREY

Product code : 00338473

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 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

CARCINOGENICITY - Category 1A

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.

B. GHS label elements, including precautionary statements

Symbol :







Signal word : Danger

Hazard statements: H226 - Flammable liquid and vapor.

H350 - May cause 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

Korea (GHS) Page: 1/15

Product name HI-TEMP 1027 LIGHT GREY

Section 2. Hazards identification

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.

Response : P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

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

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	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-94-5	10 -<20
arom.	HEAVY AROMATIC `		
Mica-group minerals	MICA	CAS: 12001-26-2	5 - <10
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
dimethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	1 - <5
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
trizinc bis(orthophosphate)	ZINC ORTHOPHOSPHATE	CAS: 7779-90-0	1 - <5
zinc oxide	ZINC OXIDE	CAS: 1314-13-2	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Toluene	TOLUENE	CAS: 108-88-3	1 - <5
naphthalene	NAPHTHALENE	CAS: 91-20-3	1 - <5
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	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

A. 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.

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.

Korea (GHS) Page: 2/15

Product name HI-TEMP 1027 LIGHT GREY

Section 4. First aid measures

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.

: If swallowed, seek medical advice immediately and show this container or label. **D.** Ingestion

Keep person warm and at rest. Do NOT induce vomiting.

: Treat symptomatically. Contact poison treatment specialist immediately if large E. Notes to physician

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. 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

A. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

: Do not use water jet.

from the chemical

B. Specific hazards arising: 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.

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.

Korea (GHS) Page: 3/15 Date of issue 5/22/2021 (month/day/year) Versi

Product code 00338473

Product name HI-TEMP 1027 LIGHT GREY

Version 14.02

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 containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. 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.

Korea (GHS) Page: 4/15

Date of issue 5/22/2021 (month/day/year) Version 14.02

Product name HI-TEMP 1027 LIGHT GREY

Section 7. Handling and storage

B. Conditions for safe storage, including any incompatibilities

Product code 00338473

: 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
Mica-group minerals	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 3 mg/m³ 8 hours. Form: Respirable
	fraction
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: total dust
	with less than 1% of free SiO2
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
zinc oxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m³ 8 hours. Form: Respirable
	dust
	STEL: 10 mg/m³ 15 minutes.
	TWA: 5 mg/m³ 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Toluene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
naphthalene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	STEL: 15 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
crystalline 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

Korea (GHS) Page: 5/15 Date of issue 5/22/2021 (month/day/year)

Product code 00338473

Product name HI-TEMP 1027 LIGHT GREY

Version 14.02

Section 8. Exposure controls/personal protection

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

B. 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 controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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 equipment

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 Hand protection

Safety glasses with side shields.

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.

> Korea (GHS) Page: 6/15

Product name HI-TEMP 1027 LIGHT GREY

Section 9. Physical and chemical properties

A. Appearance

Physical state : Liquid.

Color Grayish-white. B. Odor Hydrocarbon. C. Odor threshold : Not available. : Not applicable. : Not available. E. Melting/freezing point F. Boiling point/boiling : >37.78°C (>100°F)

range

: Closed cup: 24°C (75.2°F) G. Flash point

H. Evaporation rate : Not available. Flammability (solid, gas) : Not available.

J. Lower and upper

explosive (flammable) limits

: Greatest known range: Lower: 4.2% Upper: 12.9% (dimethyl carbonate)

K. Vapor pressure : Not available.

L. Solubility : Insoluble in the following materials: cold water.

Solubility in water : Not available. M. Vapor density : Not available.

: 1.88 N. Relative density

O. Partition coefficient: n-

octanol/water

: Not applicable.

P. Auto-ignition

temperature

: Not available.

Q. Decomposition

temperature

: Not available.

: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) R. Viscosity

S. Molecular weight : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability The product is stable.

reactions

Possibility of hazardous: Under normal conditions of storage and use, hazardous reactions will not occur.

B. 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 Depending on conditions, decomposition products may include the following materials: carbon oxides phosphorus oxides halogenated compounds decomposition products

Formaldehyde. metal oxide/oxides

Korea (GHS) Page: 7/15 **Product name HI-TEMP 1027 LIGHT GREY**

Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

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.

Eye contact: No known significant effects or critical hazards.

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			
	LD50 Oral	Rat	>5 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/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	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists			
	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	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/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

Korea (GHS)	Page: 8/15
Rolea (GnS)	raue. o/ 15

Product name HI-TEMP 1027 LIGHT GREY

Section 11. Toxicological information

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

Conclusion/Summary

Skin : There are no data available on the mixture itself.
 Eyes : There are no data available on the mixture itself.
 Respiratory : There are no data available on the mixture itself.

Sensitization

Conclusion/Summary

Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

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

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

Korea (GHS) Page: 9/15

Product name HI-TEMP 1027 LIGHT GREY

Section 11. Toxicological information

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 : May cause 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	Common name	CAS#	GHS Classification
Solvent naphtha (petroleum), heavy arom.	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	CAS: 64742-94-5	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Mica-group minerals	MICA	CAS: 12001-26-2	Not classified.
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	CARCINOGENICITY - Category 2
dimethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	FLAMMABLE LIQUIDS - Category 2
Xylene	XYLENES	CAS:	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 FLAMMABLE LIQUIDS - Category 3
, y, i e i e		1330-20-7	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
trizinc bis(orthophosphate)	ZINC ORTHOPHOSPHATE	CAS: 7779-90-0	AQUATIC HAZARD (ACUTE) - Category 1
zinc oxide	ZINC OXIDE	CAS: 1314-13-2	AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1

Korea (GHS) Page: 10/15

Product code 00338473	Date of issue 5/22/2021 (month/day/year)	Version 14.02
Product name HI-TEMP 1027 LIGHT GREY		

Section 11. Toxicological information

			AQUATIC HAZARD (LONG-TERM) - Category 1
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
			ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
Toluene	TOLUENE	CAS: 108-88-3	FLAMMABLE LIQUIDS - Category 2
			SKIN CORROSION/IRRITATION -
			Category 2
			TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY
			(SINGLE EXPOSURE) (Narcotic effects) - Category 3
			SPEČIFÍC TARGET ORGAN TOXICITY
			(REPEATED EXPOSURE) - Category 2
nanhthalana	 NAPHTHALENE	CAS:	ASPIRATION HAZARD - Category 1
naphthalene	NAPHIHALENE	91-20-3	FLAMMABLE SOLIDS - Category 2
		51-20-5	ACUTE TOXICITY (oral) - Category 4
			CARCINOGENICITY - Category 2
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A

Section 12. Ecological information

A. **Ecotoxicity**

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 - Daphnia magna	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 - Daphnia magna -	48 hours
		Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene	-	-	Readily
ethylbenzene	-	-	Readily
Toluene	-	-	Readily

C. Bioaccumulative potential

Korea (GHS) Page: 11/15

Product name HI-TEMP 1027 LIGHT GREY

Section 12. Ecological information

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

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects : 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

	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	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(Solvent naphtha (petroleum), heavy aromatic, trizinc bis (orthophosphate))	Not applicable.

Korea (GHS) Page: 12/15

Product name HI-TEMP 1027 LIGHT GREY

Section 14. Transport information

Additional information

UN : None identified.

IMDG: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA : 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 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

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:

Mice group minerals

Mica-group minerals

titanium dioxide

Xylene

zinc oxide

ethylbenzene

Toluene

naphthalene

crystalline silica, respirable powder (<10 microns)

ISHA Enforcement Regs : The following components are listed: toluene

Annex 19 (Exposure standards established for harmful factors)

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, toluene

Korea (GHS) Page: 13/15

Product name HI-TEMP 1027 LIGHT GREY

Section 15. Regulatory information

Annex 22 (Harmful

Factors Subject to Special Health Check-

up)

Standard of Industrial **Safety and Health Annex 12 (Hazardous** substances subject to control)

ISHA Enforcement Regs : The following components are listed: Xylene, Zinc oxide, Ethyl benzene, Toluene

: The following components are listed: titanium dioxide, xylene, zinc and its

compounds, zinc and its compounds, ethyl benzene, toluene

B. Regulation according to Chemicals Control Act

CCA Article 11 (TRI) : The following components are listed: Xylene including o-,m-,p- isomer, Zinc and its

compounds, Zinc and its compounds, Ethylbenzene, Toluene, Naphthalene

CCA Article 18 Prohibited (K-Reach

Article 27)

CCA Article 19 Subject to authorization (K-

Reach Article 25)

CCA Article 20 Restricted (K-Reach

Article 27)

CCA Article 20 Toxic

Chemicals (K-Reach Article 20)

Korea inventory

CCA Article 39

: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

: Not applicable

: All components are listed or exempted. : None of the components are listed.

(Accident Precaution Chemicals)

C. Dangerous Materials Safety Management Act : Class: Class 4 - Flammable Liquid

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: |||

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.

E. 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).

Korea (GHS) Page: 14/15

Product name HI-TEMP 1027 LIGHT GREY

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

: 5/22/2021

C. Version : 14.02
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.

Korea (GHS) Page: 15/15