# **SAFETY DATA SHEET**



(month/day/year) **Date of issue** 3/22/2024

Version 9.01

## Section 1. Chemical product and company identification

: HI-TEMP 1000VS SAFETY RED A. Product name **Product code** : 00336687

#### 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 classification	: FLAMMABLE LIQUIDS - Category 2
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	GERM CELL MUTAGENICITY - Category 2
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 2
This was durat is also sified in a	accordance with the Industrial Sefery and Licelth Act and the Chemical Control Act

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

#### B. GHS label elements, including precautionary statements

**Symbol** 



Date of issue 3/22/2024 (month/day/year)

Product name HI-TEMP 1000VS SAFETY RED

### Section 2. Hazards identification

Hazard statements	<ul> <li>H225 - Highly flammable liquid and vapor. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statement	5
Prevention	<ul> <li>P202 - 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. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	<ul> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
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.

Korea (GHS) Page: 2/16

### Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
dimethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	20 - <30
Xylene Cadmium compounds and mixtures contain 25% or more. (Excluding the	XYLENES CADMIUM ORANGE PIGMENT ORANGE 20.1	CAS: 1330-20-7 CAS: 12656-57-4	10 -<20 5 - <10
substances separately specified in this notice) But only for Cadmium chloride,	ONANGE 20.1		
Cadmium carbonate, Cadmium fluoroborate, Cadmium nitrate, Cadmium oxide, Cadmium sulfate,			
Cadmium sulfide, mixtures which contain 0.1% or more of one of them.			
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
cadmium sulfoselenide red	Pigment Red 108 Cadmium sulfoselenide red	CAS: 58339-34-7	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Mica-group minerals	MICA	CAS: 12001-26-2	1 - <5
Toluene	TOLUENE	CAS: 108-88-3	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
antimony nickel titanium oxide yellow	NICKEL ANTIMONY TITANATE PIG YELLOW 53	CAS: 8007-18-9	1 - <5
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1
methyl alcohol	METHYL ALCOHOL	CAS: 67-56-1	0.1 - <1

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

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

### Section 4. First aid measures

Α.	Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	:	No specific treatment.

### Section 4. First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	1	Use dry chemical, CO <sub>2</sub> , 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 sulfur 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.

### Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	action shall be taken involving any personal risk or withou cuate surrounding areas. Keep unnecessary and unprote ering. Do not touch or walk through spilled material. Shu flares, smoking or flames in hazard area. Avoid breathing vide adequate ventilation. Wear appropriate respirator w dequate. Put on appropriate personal protective equipme	ected personnel from t off all ignition sources. g vapor or mist. nen ventilation is
B. Environmental precautions	id dispersal of spilled material and runoff and contact with ns and sewers. Inform the relevant authorities if the proc ironmental pollution (sewers, waterways, soil or air). Wat / be harmful to the environment if released in large quant	uct has caused er polluting material.

#### C. Methods and materials for containment and cleaning up

### Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Α.	Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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 incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

Ingredient name	Exposure limits
¥ylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Cadmium compounds and mixtures contain 25% or more. (Excluding the substances separately specified in this notice) But only for Cadmium chloride, Cadmium carbonate, Cadmium fluoroborate, Cadmium nitrate, Cadmium oxide, Cadmium sulfate,	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Cadmium and compounds as Cd; (Respirable fraction)]
·	Korea (GHS) Page: 5/16

## Section 8. Exposure controls/personal protection

Cadmium sulfide, mixtures which contain 0.1% or more of one of	TWA: 0.01 mg/m <sup>3</sup> , (as Cd) 8 hours. Form:
them.	Respirable dust
	TWA: 0.002 mg/m <sup>3</sup> , (as Cd) 8 hours. Form:
	Respirable fraction
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers
cadmium sulfoselenide red	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Cadmium
	and compounds as Cd; (Respirable
	fraction)]
	TWA: 0.01 mg/m³, (as Cd) 8 hours. Form:
	Respirable dust
	TWA: 0.002 mg/m <sup>3</sup> , (as Cd) 8 hours. Form:
	Respirable fraction
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Mica-group minerals	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
Toluene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
Read and Read I	TWA: 50 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
	with less than 1% of free SiO2
antimony nickel titanium oxide yellow	ACGIH TLV (United States, 1/2023).
	[Nickel, insoluble inorganic compounds
	as Ni]
	TWA: 0.2 mg/m <sup>3</sup> , (as Ni) 8 hours. Form:
	Inhalable fraction
	ACGIH TLV (United States). TWA: 0.2 mg/m <sup>3</sup> Form: Total dust
en stelling eiling regulation (210 migrans)	-
crystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
methyl alcohol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	STEL: 250 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
<b>Recommended</b> : Reference should be made to approp	priate monitoring standards. Reference to
	hods for the determination of hazardous
substances will also be required.	

Product name HI-TEMP 1000VS SAFETY RED

### Section 8. Exposure controls/personal protection

В.	Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering 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.
С.	Personal protective equipr	nent
	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

Eye protection	<ul> <li>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.</li> <li>Chemical splash goggles.</li> </ul>
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves: Not recommended: nitrile rubber Recommended: polyvinyl alcohol (PVA), Viton®
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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	:	Red.
В.	Odor	:	Characteristic.
С.	Odor threshold	:	Not available.
D.	рН	:	Not applicable.

Korea (GHS) Page: 7/16

#### Product name HI-TEMP 1000VS SAFETY RED

## Section 9. Physical and chemical properties

- E. Melting/freezing point : Not available.
- F. Boiling point/boiling : >37.78°C (>100°F) range
- G. Flash point : Closed cup: 18°C (64.4°F)
- H. Evaporation rate : Not available.
- I. Flammability (solid, gas) : Not available.
- J. Lower and upper : Greatest known range: Lower: 4.2% Upper: 12.9% (dimethyl carbonate) explosive (flammable) limits

K. Vapor pressure			Vapo	r Press	ure at 20°C	Vapor pressure at 50°0		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		dimethyl carbonate	56.78	7.6	OECD 104			
Solubility(ies)		Media	Re	sult	<u></u>			
		cold water	Nc	t solubl	e			
Solubility in water	:	Not available.						
Vapor density	:	Not available.						
Relative density	:	1.43						
<ul> <li>Partition coefficient: n-</li> <li>octanol/water</li> </ul>	:	Not applicable.						
Auto-ignition temperature	:							
		Ingredient name		°C	°F		Method	
		Mene		432	809.6			
Decomposition ۹. temperature	:	Not available.				Į_		
, Viscosity	:	Kinematic (40°C (10	4°F)): >21	mm²/s	(>21 cSt)			

- Viscosity Flow time (ISO 2431) : Not available.
- Molecular weight : Not applicable.

R.

S.

## Section 10. Stability and reactivity

Α.	Chemical stability Possibility of hazardous reactions		The product is stable. 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.

Date of issue 3/22/2024 (month/day/year)

#### Product name HI-TEMP 1000VS SAFETY RED

## Section 10. Stability and reactivity

D. Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds Formaldehyde. metal oxide/oxides

### Section 11. Toxicological information

Α.	A. Information on the likely routes of exposure		: Not available.
<u>P</u>	otential acute health effe	ec	: <u>ts</u>
	Inhalation	:	May cause respiratory irritation.
	Ingestion	:	No known significant effects or critical hazards.
	Skin contact	÷	Causes skin irritation. Defatting to the skin.
	Eye contact	:	Causes serious eye irritation.
<u>0</u>	ver-exposure signs/sym	ıp	<u>toms</u>
	Inhalation	•	Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
	Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
	Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness

#### **B. Health hazards**

#### Acute toxicity

Rat Rabbit	140000 mg/m <sup>3</sup>	4.1
Rabbit		4 hours
TUDDIC	2.5 g/kg	-
Rat	12.9 g/kg	-
Rabbit	1.7 g/kg	-
Rat	4.3 g/kg	-
Rat	>5000 mg/kg	-
		Page: 9/10
		Korea (GHS)

Product name HI-TEMP 1000VS SAFETY RED

## Section 11. Toxicological information

Cadmium oxide, Cadmium sulfate, Cadmium sulfide, mixtures which contain 0.1% or more of one of them.				
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/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/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	-
methyl alcohol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>X</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			ł		•
Skin :	There are no data available of	on the mixture i	tself.		
Eyes :	There are no data available of	on the mixture i	tself.		
Respiratory :	There are no data available of	on the mixture i	tself.		
Sensitization					
Conclusion/Summary					
Skin :	There are no data available on	the mixture its	self.		
Respiratory :	There are no data available on	the mixture its	self.		
Mutagenicity					
Conclusion/Summary :	There are no data available o	n the mixture it	self.		
<b>Carcinogenicity</b>					
Conclusion/Summary :	There are no data available o	n the mixture i	tself.		
Reproductive toxicity					
	There are no data available of	on the mixture i	tself.		
<u>Teratogenicity</u>					
	There are no data available o	on the mixture i	tself.		
Specific target organ toxicity	<u> (single exposure)</u>				

Version 9.01

Product name HI-TEMP 1000VS SAFETY RED

### Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
dímethyl carbonate	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3		Respiratory tract irritation
Toluene	Category 3	-	Narcotic effects
methyl alcohol	Category 1	-	-

#### 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
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

General	: Causes 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	: Suspected of causing genetic defects.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

#### **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		
dimethyl carbonate	CAS: 616-38-6	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3		
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		
	I	Korea (GHS) Page: 11/16		

Product name HI-TEMP 1000VS SAFET		
Section 11. Toxicologica	l information	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Cadmium compounds and mixtures contain 25% or more. (Excluding the substances separately specified in this notice) But only for Cadmium chloride, Cadmium carbonate, Cadmium fluoroborate, Cadmium nitrate, Cadmium oxide, Cadmium sulfate, Cadmium sulfide, mixtures which contain 0.1% or more of one of them.	CAS: 12656-57-4	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
cadmium sulfoselenide red	CAS: 58339-34-7	ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1A AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
Mica-group minerals Toluene	CAS: 12001-26-2 CAS: 108-88-3	Not classified. FLAMMABLE LIQUIDS - Category 2 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
titanium dioxide antimony nickel titanium oxide yellow crystalline silica, respirable powder (<10	CAS: 13463-67-7 CAS: 8007-18-9 CAS: 14808-60-7	CARCINOGENICITY - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A
microns) methyl alcohol	CAS: 67-56-1	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3

## Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
dimethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	-
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
methyl alcohol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

#### B. Persistence and degradability

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

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dímethyl 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
methyl alcohol	-0.77	-	Low

#### 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

 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.

### Section 13. Disposal considerations

- **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	II	I	II
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

- UN : None identified.
- **IMDG** : None identified.
- **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	1	Not applicable.
to IMO instruments		

## Section 15. Regulatory information

Α.	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.	

Korea (GHS) Page: 14/16

### Section 15. Regulatory information

: It is not allowed to sell to persons under the age of 19. Article 2 of Youth Protection Act on Substances Hazardous to Youth Exposure Limits of Chemical Substances and Physical Factors The following components have an OEL: **X**vlene Cadmium compounds and mixtures contain 25% or more. (Excluding the substances separately specified in this notice) But only for Cadmium chloride, Cadmium carbonate, Cadmium fluoroborate, Cadmium nitrate, Cadmium oxide, Cadmium sulfate, Cadmium sulfide, mixtures which contain 0.1% or more of one of them. Talc, not containing asbestiform fibres cadmium sulfoselenide red ethylbenzene Mica-group minerals Toluene titanium dioxide antimony nickel titanium oxide yellow crystalline silica, respirable powder (<10 microns) methyl alcohol **ISHA Enforcement Regs** : The following components are listed: Cadmium and its compounds, toluene, Annex 19 (Exposure methanol standards established for harmful factors) **ISHA Enforcement Regs** : The following components are listed: cadmium and its compounds, xylene, talc / Annex 21 (Harmful soapstone, ethyl benzene, mica, toluene, titanium dioxide, nickel and its inorganic factors subject to Work compounds Environment **Measurement**) **ISHA Enforcement Regs** : The following components are listed: Cadmium and its compounds, Xylene, Ethyl Annex 22 (Harmful benzene, Toluene, Nickel and its inorganic compounds **Factors Subject to Special Health Check**up) **Standard of Industrial** : The following components are listed: xylene, cadmium and its compounds, cadmium and its compounds, ethyl benzene, toluene, titanium dioxide **Safety and Health** Annex 12 (Hazardous substances subject to control) B. Regulation according to Chemicals Control Act : The following components are listed: Xylene including o-,m-,p- isomer, Cadmium Article 11 (TRI) and its compounds, Cadmium and its compounds, Ethylbenzene, Toluene, Nickel and its compounds Article 18 Prohibited (K-: None of the components are listed. **Reach Article 27) Article 19 Subject to** : None of the components are listed. authorization (K-Reach Article 25) Article 20 Restricted (K-: None of the components are listed. **Reach Article 27)** 

Date of issue 3/22/2024 (month/day/year)

Version 9.01

Product name HI-TEMP 1000VS SAFETY RED

### Section 15. Regulatory information

	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	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	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to	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

Α.	References	<ul> <li>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.</li> </ul>
Β.	Date of issue/Date of revision	: 3/22/2024
С.	Version	: 9.01
	Prepared by	: EHS
П	Other	

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.