SAFETY DATA SHEET



Date of issue 8/24/2025 (month/day/year)

Version 10

Section 1. Chemical product and company identification

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

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

Email Address

: PPG SSC (44714)

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

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 (REPEATED EXPOSURE) - Category 1

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

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Product name HI-TEMP 1000VS SAFETY RED

Section 2. Hazards identification

Hazard statements : F225 - Highly flammable liquid and vapor.

H315 - Causes skin irritation.

H319 - Causes serious eye 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.

Precautionary statements

Prevention

: 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.

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.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

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.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

P321 - Specific treatment (see the label).

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

C. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

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Product name HI-TEMP 1000VS SAFETY RED

Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
imethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	20 - <30
		EC: 210-478-4	
Xylene	XYLENES	CAS: 1330-20-7 EC: 215-535-7	10 -<20
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.	CADMIUM ORANGE PIGMENT ORANGE 20.1	CAS: 12656-57-4	5 - <10
		EC: 235-758-3	
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6 EC: 238-877-9	5 - <10
cadmium sulfoselenide red	Pigment Red 108 Cadmium sulfoselenide red	CAS: 58339-34-7	5 - <10
ethylbenzene	ETHYLBENZENE	EC: 261-218-1 CAS: 100-41-4 EC: 202-849-4	1 - <5
Toluene	toluene	CAS: 108-88-3 EC: 203-625-9	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7 EC: 236-675-5	1 - <5
C.I. PIGMENT YELLOW 53	NICKEL ANTIMONY TITANATE PIG YELLOW 53	CAS: 8007-18-9	1 - <5
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	EC: 232-353-3 CAS: 14808-60-7	0.1 - <1
Methyl alcohol	METHYL ALCOHOL	EC: 238-878-4 CAS: 67-56-1 EC: 200-659-6	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
	evelids apart for at least 10 minutes and seek immediate medical advice

- B. 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.

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Section 4. First aid measures

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

E. 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. 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.

B. 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

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 : 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.

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Section 6. Accidental release measures

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

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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
Xylene	ISHA Article 42 (Republic of Korea, 1/2020) [Xylene] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.
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,	ISHA Article 42 (Republic of Korea, 1/2020) [Cadmium and compounds] TWA 8 hours: 0.01 mg/m³ (as Cd). TWA 8 hours: 0.002 mg/m³ (as Cd). Form:
Cadmium sulfide, mixtures which contain 0.1% or more of one of them.	Respirable fraction.
Talc , not containing asbestiform fibres	ISHA Article 42 (Republic of Korea, 1/2020)
cadmium sulfoselenide red	TWA 8 hours: 2 mg/m³ (as asbestos). Form: fibers.
Caumium suiloseienide red	ISHA Article 42 (Republic of Korea, 1/2020) [Cadmium and compounds] TWA 8 hours: 0.01 mg/m³ (as Cd). TWA 8 hours: 0.002 mg/m³ (as Cd). Form: Respirable fraction.
ethylbenzene	ISHA Article 42 (Republic of Korea, 1/2020) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.
Toluene	ISHA Article 42 (Republic of Korea, 1/2020) STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.
titanium dioxide	ISHA Article 42 (Republic of Korea, 1/2020)
C.I. PIGMENT YELLOW 53	TWA 8 hours: 10 mg/m³. ACGIH TLV (United States) TWA: 0.2 mg/m³. Form: Total dust.
crystalline silica, respirable powder (<10 microns)	ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 0.05 mg/m³. Form:
Methyl alcohol	Respirable fraction. ISHA Article 42 (Republic of Korea, 1/2020) Absorbed through skin. STEL 15 minutes: 250 ppm. TWA 8 hours: 200 ppm.

Recommended monitoring procedures

: 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.

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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 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

: Chemical splash goggles.

: 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.

A. Appearance

Physical state : Liquid.
Color : Red.

B. Odor : Characteristic.
C. Odor threshold : Not available.
D. pH : Not applicable.
E. Melting/freezing point : Not available.
F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: 18°C (64.4°F)

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Section 9. Physical and chemical properties

H. Evaporation rate : Not available.

Flammability (solid, gas) Not available. J. Lower and upper : Not available.

explosive (flammable)

limits

K.

Vapor pressure	:		Vapo	r Pressui	re at 20°C	Vapo	r pressu	re at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		dimethyl carbonate	56.78	7.6	OECD 104			

Media Result L. Solubility(ies)

> cold water Not soluble

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

Relative density : 1.43

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition

temperature

Ingredient name	°C	°F	Method
Mene	432	809.6	

Decomposition temperature

: Not available.

: Dynamic (room temperature): Not available. Viscosity Kinematic (room temperature): Not available.

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

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

Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

Possibility of hazardous

reactions

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

oxides

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Section 11. Toxicological information

A. Information on the likely routes of exposure

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: Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. **Skin contact** : Causes skin irritation. Defatting to the skin.

Eye contact : Causes serious eye irritation.

Ove<u>r-exposure signs/symptoms</u>

: Adverse symptoms may include the following: Inhalation

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

Adverse symptoms may include the following: **Eye contact**

pain or irritation

watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
methyl carbonate	LC50 Inhalation Vapor	Rat	140000 mg/m³	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	-
Cadmium compounds and mixtures contain 25% or more. (Excluding the	LD50 Oral	Rat	>5000 mg/kg	-
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.				
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
	I			

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Product code 00336687 Date of issue 8/24/2025 (month/day/year) Version 10 **Product name HI-TEMP 1000VS SAFETY RED** Section 11. Toxicological information LD50 Oral Rat 5580 mg/kg titanium dioxide LC50 Inhalation Dusts and Rat >6.82 mg/l 4 hours mists LD50 Dermal Rabbit >5000 mg/kg >5000 mg/kg LD50 Oral Rat Methyl alcohol LC50 Inhalation Vapor 64000 ppm 4 hours Rat LD50 Dermal Rabbit 15800 mg/kg 5600 mg/kg LD50 Oral Rat

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene	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
▼ylene Talc , not containing asbestiform fibres	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Toluene Methyl alcohol	Category 3 Category 1	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

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Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
K ylene	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
methyl carbonate	CAS: 616-38-6 EC: 210-478-4	FLAMMABLE LIQUIDS - Category 2 TOXIC TO REPRODUCTION - Category 2
Xylene	CAS: 1330-20-7 EC: 215-535-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE 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
	EC: 235-758-3	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 GERM CELL MUTAGENICITY - Category 2

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Section 11. Toxicological information

L	1	
		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
· a , · · c. · · · · · · · · · ·		EXPOSURE) (Respiratory tract irritation) -
		Category 3
	EC: 238-877-9	Category 5
cadmium sulfoselenide red	CAS: 58339-34-7	ACLITE TOVICITY (inhelation) Category 4
cadmium sunoseienide red		ACUTE TOXICITY (inhalation) - Category 4
	EC: 261-218-1	CARCINOGENICITY - Category 1A
		AQUATIC HAZARD (ACUTE) - Category 1
		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
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
Toluene	CAS: 108-88-3	FLAMMABLE LIQUIDS - Category 2
	EC: 203-625-9	SKIN IRRITATION - Category 2
	20. 200 020 0	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	CAS: 13463-67-7	CARCINOGENICITY - Category 2
	EC: 236-675-5	
C.I. PIGMENT YELLOW 53	CAS: 8007-18-9	CARCINOGENICITY - Category 1A
	EC: 232-353-3	
crystalline silica, respirable powder (<10	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
microns)		
,	EC: 238-878-4	
Methyl alcohol	CAS: 67-56-1	FLAMMABLE LIQUIDS - Category 2
initially alcohol	EC: 200-659-6	ACUTE TOXICITY (oral) - Category 3
	LO. 200-033 - 0	ACUTE TOXICITY (drain) - 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
☑methyl 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 - Ceriodaphnia dubia	-
Toluene	EC50 3.78 mg/l	Daphnia	48 hours
	LC50 5.5 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Methyl alcohol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

B. Persistence and degradability

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Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-

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

C. Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
D imethyl carbonate	0.354	-	Low
Xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
Toluene	2.73	90	Low
Methyl alcohol	-0.77	-	Low

D. Mobility in soil

Soil/Water partition

coefficient

: 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

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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	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 : Not applicable.

to IMO instruments

Section 15. Regulatory information

A. 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

The following components have an OEL:

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Section 15. Regulatory information

Xylene

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 sulfate, mixtures which contain 0.1% or more of one of them.

Talc, not containing asbestiform fibres

cadmium sulfoselenide red

ethylbenzene

Toluene

titanium dioxide

C.I. PIGMENT YELLOW 53

crystalline silica, respirable powder (<10 microns)

Methyl alcohol

ISHA Enforcement Reg Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs : The following components are listed: Cadmium and its compounds, toluene, methanol

ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)

: The following components are listed: cadmium and its compounds, xylene, talc / soapstone, ethyl benzene, mica, toluene, titanium dioxide, nickel and its inorganic compounds

ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Checkup) : The following components are listed: Cadmium and its compounds, Xylene, Ethyl benzene, Toluene, Nickel and its inorganic compounds

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

: The following components are listed: xylene, cadmium and its compounds, cadmium and its compounds, ethyl benzene, toluene, titanium dioxide

B. Regulation according to Chemicals Control Act

Article 11 (TRI)

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

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 : Not applicable

Article 20)

Korea inventory : All components are listed or exempted.Article 39 (Accident : None of the components are listed.

Precaution Chemicals)

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Section 15. Regulatory information

C. <u>Dangerous Materials</u> 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. <u>Wastes regulation</u>: 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).

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 : 5/5/2018
C. Date of issue/Date of : 8/24/2025

revision

D. Version : 10
Prepared by : EHS

E. 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.

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