SAFETY DATA SHEET



Date of issue 4/9/2024 (month/day/year)

Version 1.01

Section 1. Chemical product and company identification

A. Product name : FREITAPOX SR 215 EVO BASE GRIS METAL

Product code : 000001189467

Other means of identification

00446633; 00474039

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 : PPG SSC

information

Email Address

(680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

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number:

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Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

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 : Warning

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Product name FREITAPOX SR 215 EVO BASE GRIS METAL

Section 2. Hazards identification

Hazard statements : H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

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

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.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

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

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

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

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage**

P403 + P235 - Keep cool.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

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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Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
xylene	o-Xylene	CAS: 95-47-6	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
trizinc bis(orthophosphate)	ZINC ORTHOPHOSPHATE	CAS: 7779-90-0	5 - <10
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE</td><td>CAS: 25036-25-3</td><td>5 - <10</td></mw<=1100)<>	EPOXY RESIN (AVERAGE	CAS: 25036-25-3	5 - <10
	MOLECULAR WEIGHT >700 - <1100)		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	1 - <5
methyl ethyl ketone	BUTANONE / ETHYL METHYL KETONE	CAS: 78-93-3	1 - <5
isobutyl acetate	ISOBUTYL ACETATE	CAS: 110-19-0	1 - <5
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
zinc oxide	ZINC OXIDE	CAS: 1314-13-2	0.1 - <1
cadmium	CADMIUM	CAS: 7440-43-9	<0.1

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.

S	ection 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.
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.
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)

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Product name FREITAPOX SR 215 EVO BASE GRIS METAL

Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

: Do not use water jet.

B. Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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 metal oxide/oxides

C. Special equipment for fire-fighting

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighting procedures :

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

B. Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

C. Methods and materials for 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 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

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Section 6. Accidental release measures

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure obtain special instructions before use. 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.

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
xylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)] STEL: 150 ppm 15 minutes.
Talc , not containing asbestiform fibres	TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m³ 8 hours. Form: fibers
titanium dioxide	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m³ 8 hours. Form: total dust
methyl ethyl ketone	with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 300 ppm 15 minutes.
isobutyl acetate	TWA: 200 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 187 ppm 15 minutes.
Xylene	TWA: 150 ppm 8 hours. Ministry of Employment and Labor

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Section 8. Exposure controls/personal protection

(Republic of Korea, 1/2020). [Xylene (all isomers)]

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STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

Ministry of Employment and Labor (Republic of Korea, 1/2020).

STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.

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.

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/m³, (as Cd) 8 hours. Form:

Respirable fraction

Recommended monitoring procedures

ethylbenzene

zinc oxide

cadmium

: 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

: 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.

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Section 8. Exposure controls/personal protection

: butvl rubber **Gloves**

: Personal protective equipment for the body should be selected based on the task **Body protection**

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.

: Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures**

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Section 9. Physical and chemical properties

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

A. Appearance

Physical state : Liquid. Color : Gray.

B. Odor Aromatic, [Strong] C. Odor threshold : Not available.

D. pH : Not applicable. E. Melting/freezing point : Not available.

F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 25°C (77°F)

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

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.8% Upper: 11.5% (butanone)

K. Vapor pressure

	Vapoi	Vapor Pressure at 20°C		Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
butanone	78.7564	10.5				

Media Result L. Solubility(ies)

: 1.7

cold water Not soluble

Solubility in water Not available. Vapor density Not available.

Partition coefficient: n-

Relative density

: Not applicable.

octanol/water

Auto-ignition

temperature

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Section 9. Physical and chemical properties

Ingredient name	°C	°F	Method
butanone	404	759.2	

Q. Decomposition temperature

: Not available.

R. Viscosity

S.

: Kinematic (room temperature): >400 mm²/s (>400 cSt) 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

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

reactions

: When exposed to high temperatures may produce hazardous decomposition

products.

C. Incompatible materials

B. Conditions to avoid

: 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 phosphorus oxides metal oxide/oxides

Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

Potential acute health effects

Inhalation : May cause respiratory irritation.

Ingestion: No known significant effects or critical hazards.

Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

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

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Product name FREITAPOX SR 215 EVO BASE GRIS METAL

Section 11. Toxicological information

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

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Vapor	Rat	27124 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 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	_
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>_</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	_
,	LD50 Oral	Rat	>2000 mg/kg	_
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	_
	LD50 Oral	Rat	15000 mg/kg	_
methyl ethyl ketone	LD50 Dermal	Rabbit	6480 mg/kg	_
	LD50 Oral	Rat	2737 mg/kg	_
isobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	_
	LD50 Oral	Rat	13400 mg/kg	_
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	_
	LD50 Oral	Rat	4.3 g/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	_
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	-
cadmium	LD50 Oral	Rat	0.225 g/kg	-

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

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)phenyl] propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
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

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing

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
xylene	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
Talc , not containing asbestiform fibres	Category 3		Respiratory tract irritation
methyl ethyl ketone	Category 3	-	Narcotic effects
isobutyl acetate	Category 3		Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects

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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Potential chronic health effects

General: May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : 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. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
xylene	CAS: 95-47-6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Talc , not containing asbestiform fibres	CAS: 14807-96-6	ASPIRATION HAZARD - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
trizinc bis(orthophosphate)	CAS: 7779-90-0	Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2

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Section 11. Toxicological information

Epoxy Resin (700 <mw<=1100)< th=""><th>CAS: 25036-25-3</th><th>SKIN IRRITATION - Category 2</th></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2
	0, 10. 20000 20 0	EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS: 1675-54-3	SKIN IRRITATION - Category 2
[· (=,0 oposup. oposu)p		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 2
methyl ethyl ketone	CAS: 78-93-3	FLAMMABLE LIQUIDS - Category 2
mounty outly noterio	0,10.7000	EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
isobutyl acetate	CAS: 110-19-0	FLAMMABLE LIQUIDS - Category 2
	CAG. 110-13-0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
Aylerie	CAG. 1000-20-1	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
othylbonzono	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
ethylbenzene	CAS. 100-41-4	
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
zinc oxide	CAS: 1314-13-2	AQUATIC HAZARD (LONG-TERM) - Category 3
ZITIC OXIGE	CAS. 1314-13-2	AQUATIC HAZARD (ACUTE) - Category 1
a a destino	040, 7440, 40, 0	AQUATIC HAZARD (LONG-TERM) - Category 1
cadmium	CAS: 7440-43-9	ACUTE TOXICITY (oral) - Category 3
		ACUTE TOXICITY (inhalation) - Category 2
		GERM CELL MUTAGENICITY - Category 2
		CARCINOGENICITY - Category 1
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
, , ,	Chronic NOEC 0.026 mg/l	Fish	30 days
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
bis-[4-(2,3-epoxipropoxi)	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
phenyl]propane			
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
•	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours

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Section 12 Ecological informat	rion		
Product name FREITAPOX SR 215 EVO BASE GRIS METAL			
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		Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
cadmium	Acute LC50 1500 ppb	Fish	96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
xylene	OECD 301F	94 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days		-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Readily Not readily
Xylene ethylbenzene	- -	- -	Readily Readily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	14.13	Low
methyl ethyl ketone	0.3	-	Low
isobutyl acetate	2.3	-	Low
Xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	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.

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Section 14. Transport information

Product code 000001189467

	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.	(trizinc bis(orthophosphate))	Not applicable.

Additional information

UN : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in

packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2

and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.2.

IMDG : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in

packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2

and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.

: 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 : It is not allowed to sell to persons under the age of 19.

to Youth

Exposure Limits of Chemical Substances and Physical Factors

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Product name FREITAPOX SR 215 EVO BASE GRIS METAL

Section 15. Regulatory information

The following components have an OEL:

xylene

Talc, not containing asbestiform fibres

titanium dioxide methyl ethyl ketone isobutyl acetate

Xylene ethylbenzene zinc oxide cadmium

ISHA Enforcement Regs: None of the components are listed.

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

Annex 21 (Harmful factors subject to Work

Environment Measurement) The following components are listed: xylene, talc / soapstone, titanium dioxide,

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methyl ethyl ketone, isobutyl acetate

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, Methyl ethyl ketone

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

dioxide, methyl ethyl ketone, isobutyl acetate, xylene

B. Regulation according to Chemicals Control Act

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

compounds, Methyl ethyl ketone, Xylene including o-,m-,p- isomer, Ethylbenzene

Article 18 Prohibited (K-

Reach Article 27)

Article 19 Subject to authorization (K-Reach

Article 25)

: None of the components are listed.

: None of the components are listed.

Article 20 Restricted (K-

Reach Article 27)

: None of the components are listed.

Article 20 Toxic Chemicals (K-Reach

Article 20)

: Not applicable

Korea inventory

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

Article 39 (Accident **Precaution Chemicals**) C. <u>Dangerous Materials</u>

: Class: Class 4 - Flammable Liquid

Safety Management Act

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

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

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Product name FREITAPOX SR 215 EVO BASE GRIS METAL

Section 15. Regulatory information

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. Date of issue/Date of

revision

: 4/9/2024

C. Version : 1.01
Prepared by : EHS

D. Other

V Indicates information that has changed from previously issued version. **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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