SAFETY DATA SHEET

SF ZINC PRIMER BASE GREY



Date of issue 28 April 2024

Version 21

1. Product and company identification

Product name	: SF ZINC PRIMER BASE GREY
Product code	: 00243435
Product type	: Liquid.
Relevant identified uses of	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	: Not applicable.

Supplier's details	: PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe
	652-0803 Japan; Tel: +81-78-574-2777

Emergency telephone : 078 574 2777 number

2. Hazards identification

GHS Classification	: FLAMMABLE LIQUIDS - Category 2
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	TOXIC TO REPRODUCTION - Category 1A
	TOXIC TO REPRODUCTION - Effects on or via lactation
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
	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 1
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -
	Category 1
GHS label elements	
Hazard pictograms	
	$\langle \langle \rangle \rangle \langle \langle \rangle \rangle \langle \langle \rangle \rangle \langle \langle \rangle \rangle$
	\bullet \bullet \bullet \bullet
Signal word	: Danger

Product code 00243435	Date of issue 28 April 2024 Version 21	
Product name SF ZINC PRIM		
2. Hazards identifi	tion	
Hazard statements	Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs, systemic toxicity) Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), gastrointestinal tract, kidneys, nervous system, respirator organs) Very toxic to aquatic life with long lasting effects.	ory
Precautionary statements		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing an eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilate area. Avoid release to the environment. Do not breathe vapor. Avoid contact during pregnancy and while nursing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should n be allowed out of the workplace.	id s ed s
Response	Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. INHALED: Remove person to fresh air and keep comfortable for breathing. Cal POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Was with plenty of water. If skin irritation or rash occurs: Get medical advice or atten IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.	ll a sh ition.
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed.	
Disposal	Dispose of contents and container in accordance with all local, regional, nationa and international regulations.	il
Other hazards which do not result in classification	Prolonged or repeated contact may dry skin and cause irritation.	

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number	: Not applicable.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
Zínc	25 - <50	7440-66-6	Not available.
Acetone	15 - <20	67-64-1	2-542
Toluene	10 - <12.5	108-88-3	3-2; 3-60
crystalline silica, respirable powder (>10 microns)	5 - <7	14808-60-7	1-548
Epoxy Resin (700 <mw<=1100)< td=""><td>5 - <7</td><td>25036-25-3</td><td>Not available.</td></mw<=1100)<>	5 - <7	25036-25-3	Not available.
Ethyl acetate	5 - <7	141-78-6	2-726
Diiron trioxide	2 - <3	1309-37-1	1-357; 5-5188
Zinc oxide	2 - <3	1314-13-2	1-561
Xylene	1 - <2	1330-20-7	3-3; 3-60
<u></u>	1	Jap	an Page: 2/16

Product code 00243435 Product name SF ZINC PRIMER BASE GREY	ate of issue 28 April 2024	Version 21	
3. Composition/information on ingredients			
titanium dioxide (excluding nanoparticle)	0.5 - <1	13463-67-7	1-558; 5-5225

Ethylbenzene0.2 - <0.5</th>100-41-43-28; 3-60There are no additional ingredients present which, within the current knowledge of the supplier and in the
concentrations applicable are classified as bazardous to bealth or the environment and bence require

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.

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Description of necess	ary first aid measures
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.
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.
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.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	 Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness 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

Product code 00243435 Product name SF ZINC PRI	Date of issue 28 April 2024 Version 21 IR BASE GREY Image: Comparison of the second
4. First aid measu	es
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations al attention and special treatment needed, if necessary
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. is suspected that fumes are still present, the rescuer should wear an appropriat mask or self-contained breathing apparatus. It may be dangerous to the persor providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothin thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
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 very 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 metal oxide/oxides	
Special protective actions for fire-fighters	: 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.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

6. Accidental release measures

Personal precautions, protect	ive equipment and emergency procedures
For non-emergency personnel	: 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.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6. Accidental release measures

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.

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 emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Persons with a handling 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 contact during pregnancy or while nursing. 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.

Conditions for safe storage : 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.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

ngredient name	Exposure limits
Kcetone	Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 475 mg/m ³ 8 hours.
	OEL-M: 200 ppm 8 hours.
	Industrial Safety and Health Act (Japan,
	6/2020).
	TWA: 500 ppm 8 hours.
oluene	Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-M: 188 mg/m ³ 8 hours. OEL-M: 50 ppm 8 hours.
	Industrial Safety and Health Act (Japan,
	6/2020).
	TWA: 20 ppm 8 hours.
rystalline silica, respirable powder (>10 microns)	Japan Society for Occupational Health (Japan, 9/2022). [Respirable crystalline silica]
	OEL-C: 0.03 mg/m ³ Form: Respirable dus
thyl acetate	Japan Society for Occupational Health
	(Japan, 9/2022).
	OEL-M: 720 mg/m ³ 8 hours.
	OEL-M: 200 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020).
	TWA: 200 ppm 8 hours.
Diiron trioxide	Japan Society for Occupational Health (Japan, 9/2022). [Class 2 dusts (Dusts containing less than 3% cry stalline silic Bakelite, Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Jose stick material dust, Marble, Portland cement, Zinc oxide)] OEL-M: 1 mg/m ³ 8 hours. Form: Respirab dust (Class 2 Dust)
	OEL-M: 4 mg/m ³ 8 hours. Form: Total dus (Class 2 Dust)
(ylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene]
	TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 9/2022).
	OEL-M: 50 ppm 8 hours.
	OEL-M: 217 mg/m ³ 8 hours.
thylbenzene	Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin.
	OEL-M: 87 mg/m ³ 8 hours. OEL-M: 20 ppm 8 hours.
	Industrial Safety and Health Act (Japan,
	6/2020).
	TWA: 20 ppm 8 hours.

8. Exposure controls/personal protection

Appropriate engineering controls Environmental exposure 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. 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.
Individual protection meas	ures
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. 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.
Eye protection	: Chemical splash goggles.
Skin protection	
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	: butyl rubber
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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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.

9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Gray.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: -11°C (12.2°F)
Relative density	: 1.6

9. Physical and chemical properties

Solubility(ies) :	Media	Result
	cold water	Not soluble

10. Stability and reactivity Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
zínc	LC50 Inhalation Dusts and mists	Rat	>5.4 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-
Acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
Epoxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Ethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
-	LD50 Oral	Rat	5620 mg/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
Zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

11. Toxicological information

Irritation/Corrosion

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

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Toluene	Category 1	-	central nervous system (CNS)
	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
Ethyl acetate	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Diiron trioxide	Category 1	-	respiratory organs
Zinc oxide	Category 1	-	respiratory organs, systemic toxicity
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 1	-	central nervous system (CNS), gastrointestinal tract, respiratory
Toluene	Category 1	-	organs central nervous system (CNS), kidneys
Diiron trioxide	Category 1	-	respiratory organs
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Xylene titanium dioxide (excluding n Ethylbenzene	nanopa	rticle)	Category 1 Category 1 Category 1		-	nervous system, respiratory organs respiratory organs hearing organs, nervous system
Aspiration hazard						
Name				Resi	ılt	
♥oluene Xylene Ethylbenzene				ASP	RATION HAZARE RATION HAZARE RATION HAZARE) - Category 1
Information on the likely routes of exposure	: No	ot available.				
Potential acute health effect	<u>cts</u>					
Eye contact		auses serious eye irritat				
Inhalation	diz	an cause central nervou zziness. May cause res	spiratory irritat	ion.		
Skin contact	sk	auses damage to organ in irritation. Defatting to	o the skin. Ma	ay cau	se an allergic skin	reaction.
Ingestion		auses damage to organ ntral nervous system ((exposure if swallo	wed. Can cause
Symptoms related to the pl	hysica	l, chemical and toxico	ological chara	<u>icteris</u>	stics	
Eye contact	pa wa	lverse symptoms may i iin or irritation atering dness	include the fol	lowing	Ľ	
Inhalation	re co na he dr di ur re ind	dverse symptoms may i spiratory tract irritation ughing usea or vomiting adache owsiness/fatigue zziness/vertigo iconsciousness duced fetal weight crease in fetal deaths eletal malformations	include the fol	lowing		
Skin contact	irr re dr cra re ind	dverse symptoms may i itation dness yness acking duced fetal weight crease in fetal deaths eletal malformations	include the fol	lowing		
		lverse symptoms may i	include the fol	lowing	:	

Short term exposure

11. Toxicological information

Potential immediate effects	: Not available.					
Potential delayed effects	: Not available.					
Long term exposure						
Potential immediate effects	: Not available.					
Potential delayed effects	: Not available.					
Potential chronic health eff	ects					
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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.					
Carcinogenicity	: No known significant effects or critical hazards.					
Mutagenicity	: No known significant effects or critical hazards.					
Reproductive toxicity	: May damage fertility or the unborn child. May cause harm to breast-fed children.					

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
F ZINC PRIMER BASE GREY	40512.2	16534.6	N/A	60.3	N/A
Acetone	5800	15800	N/A	76	N/A
Toluene	5580	8390	N/A	11	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
Ethyl acetate	5620	N/A	N/A	11	N/A
Diiron trioxide	10000	N/A	N/A	N/A	N/A
Zinc oxide	N/A	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A

Other 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.

12. Ecological information

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Toxicity

Product/ingredient name	Result	Species	Exposure
zínc	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	
Acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa -	48 hours
		Copepodid	
	Acute LC50 5540 mg/l	Fish	96 hours
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours

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12. Ecological information						
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours			
titanium dioxide (excluding nanoparticle)	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours			
	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 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>	-			

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Acetone Ethylbenzene	-		eadily - 28 days Idily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Acetone Toluene Xylene Ethylbenzene	- - - -		- - - -		Readily Readily Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Acetone	-0.23	3	Low
Toluene	2.73	8.32	Low
Ethyl acetate	0.68	-	Low
Xylene	3.12	7.4 to 18.5	Low
Ethylbenzene	3.6	79.43	Low

Mobility in soil

Other adverse effects

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

: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. 2 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. 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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14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.

Additional information

: None identified.

UN IMDG ΙΑΤΑ

- : The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
- : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : 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

15. Regulatory information

Fire Service Law

	Category	Substance name/Type	Danger category	Signal word	Designated quantity
_	Category IV	Class I petroleums	II	Flammable - Keep Fire Away	200 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
<mark>F∕</mark> oluene	11	Class 1	300
Xylene	1.7	Class 1	80

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

Substance(s) requiring labelling

15. Regulatory information

Ingredient name	%	Status	Reference number
Kcetone	≥10 - ≤20	Listed	17
Toluene	≥10 - ≤20	Listed	407
Crystalline silica	≤10	Listed	165-2
Ethyl acetate	≤10	Listed	177
Iron oxide	≤10	Listed	192
Zinc oxide	≤10	Listed	188
Xylene	≤10	Listed	136
Ethylbenzene	≤10	Listed	70

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Acetone	≥10 - ≤20	Listed	17
Toluene	≥10 - ≤20	Listed	407
Crystalline silica	≤10	Listed	165-2
Ethyl acetate	≤10	Listed	177
Iron oxide	≤10	Listed	192
Zinc oxide	≤10	Listed	188
Xylene	≤10	Listed	136
Titanium(IV) oxide	≤10	Listed	191
Ethylbenzene	≤10	Listed	70

Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

<u>Mutagen</u>

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable, Combustible
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable, Combustible
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Class 2

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

15. Regulatory information

Ingredient name	%	Status	Reference number
✓oluene Xylene Ethylbenzene Sodium salt of saturatedfatty acid(C8-18, normal chain) or unsaturatedfatty acid(C16-18, normal chain)	≥10 - ≤20 ≤10 ≤10 ≤10	Priority assessment Priority assessment Priority assessment Priority assessment	46 125 50 172

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

JSOH Carcinogen	: Group 1
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: At least one component is not listed.
Road law	: Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 28 April 2024
Date of previous issue	: 2/23/2023
Version	: 21
Prepared by	: EHS
Key to abbreviations	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
Indicates information the	at has changed from previously issued version

Indicates information that has changed from previously issued version.

Version 21

16. Other information

Notice to reader

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.