SAFETY DATA SHEET

SIGMACOVER 256S BASE RAL 9010



Date of issue 5 February 2024

Version 8

1. Product and company identification

Product name: SIGMACOVER 256S BASE RAL 9010Product code: 00318816Product type: Liquid.Relevant identified uses of the substance or mixture and uses advised againstProduct use: Professional applications, Used by spraying.Use of the substance/ mixture: Coating.Uses advised against: Not applicable.Supplier's details: PFG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777Emergency telephone number: 078 574 2777		
Product type: Liquid.Relevant identified uses of the substance or mixture and uses advised againstProduct 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: +81-78-574-2777Emergency telephone: 078 574 2777	Product name	: SIGMACOVER 256S BASE RAL 9010
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	Supplier's details	
		: 078 574 2777

2. Hazards identification

GHS Classification	 AMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 2
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects.

		respiratory organs) Causes damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), hearing organs, immune system, kidneys, lungs, nervous system, respiratory organs) Toxic to aquatic life with long lasting effects.
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 and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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.
Storage	1	Store locked up.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
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	
CSCL number	

Not applicable.Not available.

Ingredient name	%	CAS number	CSCL
Intanium dioxide (excluding nanoparticle)	20 - <25	13463-67-7	1-558; 5-5225
Epoxy Resin	20 - <25	SUB110652	Not available.
crystalline silica (quartz)	10 - <12.5	14808-60-7	1-548
Xylene	7 - <10	1330-20-7	3-3; 3-60
Talc containing no asbestos or quartz	7 - <10	14807-96-6	Not available.
zinc phosphate	5 - <7	7779-90-0	1-1181; 1-526
Epoxy resin (MW \leq 700)	5 - <7	25068-38-6	(7)-1279
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6	Not available.
1,2,4-Trimethylbenzene	2 - <3	95-63-6	3-3427; 3-7
Ethylbenzene	1 - <2	100-41-4	3-28; 3-60
Aluminium oxide	1 - <2	1344-28-1	1-23
Propylene glycol monomethyl ether	1 - <2	107-98-2	2-404; 7-97
Zirconium oxide	0.2 - <0.5	1314-23-4	1-563

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.

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/	effec	ts, acute and delayed	
Potential acute health effe	<u>cts</u>		
Eye contact	:	Causes serious eye irritation.	
Inhalation	:	No known significant effects or critical hazards.	
Skin contact	:	May cause 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	1	May cause damage to organs following a single exposure if swallowed.	
Over-exposure signs/sym	otom	<u>IS</u>	
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	:	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	
Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	
Indication of immediate me	dica	l 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. 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)

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	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides phosphorus oxides halogenated compounds metal oxide/oxides
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, protective 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".
·	: 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 co	ntainment 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.

6. Accidental release measures

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.

7. Handling and storage

Precautions for safe : 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 handling 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.

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

Ingredient name	Exposure limits
erystalline silica (quartz)	Japan Society for Occupational Health (Japan, 9/2022). [Respirable crystalline silica]
Xylene	OEL-C: 0.03 mg/m ³ Form: Respirable dust 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.
Talc containing no asbestos or quartz	Japan Society for Occupational Health (Japan, 9/2022). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite,
	Japan Page: 5/15

8. Exposure controls/personal protection

l	I I	
		Diatomite, Graphite, Kaolinite, Pagodite,
		Pyrites, Pyrite cinder, Talc)]
		OEL-M: 0.5 mg/m ³ 8 hours. Form:
		Respirable dust (Class 1 Dust)
		OEL-M: 2 mg/m ³ 8 hours. Form: Total dust
		(Class 1 Dust)
1,2,4-Trimethylbenzene		Japan Society for Occupational Health
		(Japan, 9/2022).
		OEL-M: 120 mg/m ³ 8 hours.
		OEL-M: 25 ppm 8 hours.
Ethylbenzene		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.
Aluminium oxide		Japan Society for Occupational Health
		(Japan, 9/2022). [Class 1 dusts (Activated
		charcoal, Alumina, Aluminium, Bentonite,
		Diatomite, Graphite, Kaolinite, Pagodite,
		Pyrites, Pyrite cinder, Talc)]
		OEL-M: 0.5 mg/m ³ 8 hours. Form:
		Respirable dust (Class 1 Dust)
		OEL-M: 2 mg/m ³ 8 hours. Form: Total dust
		(Class 1 Dust)
Recommended monitoring	: Reference should be made to approp	priate monitoring standards. Reference to
procedures		hods for the determination of hazardous
procourioo	substances will also be required.	
Appropriate engineering	: Use only with adequate ventilation. U	Jse process enclosures, local exhaust ventilation
controls		worker exposure to airborne contaminants
	below any recommended or statutory	limits. The engineering controls also need to
		ns below any lower explosive limits. Use
	explosion-proof ventilation equipment	
Environmental exposure	: Emissions from ventilation or work pr	ocess equipment should be checked to ensure
controls	they comply with the requirements of	environmental protection legislation. In some
	cases, fume scrubbers, filters or engi	neering modifications to the process equipment
	will be necessary to reduce emissions	s to acceptable levels.
Individual protection measu	ros	
Hygiene measures		oughly after handling chemical products, before
		ry and at the end of the working period.
		ed to remove potentially contaminated clothing.
		ot be allowed out of the workplace. Wash
		. Ensure that eyewash stations and safety
Eye protection	showers are close to the workstation : Chemical splash goggles.	IUGAIIUII.
	· Chemical splash goggies.	
Skin protection		

8. Exposure controls/personal 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

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: White.		
Odor	: Aromatic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 30°C (80	δ°F)	
Relative density	: 1.52		
Solubility(ies)	Media	Result	
Solubility(les)	• 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.		

Product code 00318816 Product name SIGMACOVER 256S BASE RAL 9010

10. Stability and reactivity

Hazardous decomposition products

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

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
zinc phosphate	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
ingrit diornatio	LD50 Oral	Rat	8400 mg/kg	_
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
1,2,1 1111001131801120110	LD50 Oral	Rat	5 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	-
Aluminium oxide	LC50 Inhalation Dusts and mists	Rat	7.6 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Propylene glycol monomethyl ether	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
-	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Epoxy resin (MW ≤ 700)	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	-	-

Sensitization

••••••	Route of exposure	Species	Result
Epoxy resin (MW ≤ 700)	skin	Mouse	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
X ylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Aluminium oxide	Category 3	-	Respiratory tract irritation
Propylene glycol monomethyl ether	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Itanium dioxide (excluding nanoparticle) crystalline silica (quartz)	Category 1 Category 1	-	respiratory organs immune system, kidneys, respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
zinc phosphate	Category 1	-	blood system
1,2,4-Trimethylbenzene	Category 1	-	central nervous system (CNS), respiratory organs
Ethylbenzene	Category 1	-	hearing organs, nervous system
Aluminium oxide	Category 1	-	lungs

Aspiration hazard

Name	Result
X ylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effect	: <u>ts</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	;	May cause 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	:	May cause damage to organs following a single exposure if swallowed.

11. Toxicological information

Symptoms related to the ph	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: 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
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
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	<u>ects</u>
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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Suspected of causing genetic defects.
Reproductive toxicity	: May damage fertility or the unborn child.

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)
		<u> </u>	J	lapan	Page: 10/15

11. Toxicological information

SIGMACOVER 256S BASE RAL 9010	28781.5	5589.7	N/A	60.7	N/A
Xylene	4300	1700	N/A	11	N/A
Epoxy resin (MW \leq 700)	2500	2500	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-Trimethylbenzene	5000	N/A	N/A	18	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A
Aluminium oxide	N/A	N/A	N/A	N/A	7.6
Propylene glycol monomethyl ether	5200	13000	N/A	11	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

Toxicity

Product/ingredient name	Result	Species	Exposure
inanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
zinc phosphate	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
Epoxy resin (MW \leq 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
Ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
Aluminium oxide	Acute LC50 >100 mg/l	Fish	96 hours
Propylene glycol monomethyl ether	Acute LC50 23300 mg/l	Daphnia	48 hours
-	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700) Ethylbenzene	OECD 301F -	5 % - 28 da 79 % - Rea	iys dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<mark>X</mark> ylene Epoxy resin (MW ≤ 700) Ethylbenzene	- - -		- -		Readily Not rea Readily	idily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
▼yleneEpoxy resin (MW ≤ 700)1,2,4-TrimethylbenzeneEthylbenzenePropylene glycolmonomethyl ether	3.12	7.4 to 18.5	Low
	3	31	Low
	3.63	120.23	Low
	3.6	79.43	Low
	<1	-	Low

12. Ecological information

Mobility in soil Soil/water partition coefficient (K _{oc}) Mobility	Not available.Not available.	
Other adverse effects	: No known significant effects or critical hazards.	

13. Disposal considerations

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. 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.

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	III		III
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.	(trizinc bis(orthophosphate))	Not applicable.

Additional information

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: 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.

14. Transport information

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 II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
∀ylene Trizinc bis(phosphate) Trimethylbenzene Ethylbenzene	8.4 6.8 3.6 1.5	Class 1 Class 2 Class 1 Class 1	80 793 691 53

Industrial Safety and Health Act

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

Ingredient name	%		Reference number
E thyl benzene		Group-2 Substances under Supervision	3-3

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
Image: Transmitter with the second secon	≥20 - ≤30	Listed	191
Crystalline silica	≥10 - ≤20	Listed	165-2
Xylene	≤10	Listed	136
Petroleum naphtha	≤10	Listed	330
Trimethylbenzene	≤10	Listed	404
Ethylbenzene	≤10	Listed	70
Aluminium oxide	≤10	Listed	189
Propylene glycol monomethyl ether	≤10	Listed	496

Chemicals requiring notification

Ingredient name	%	Status	Reference number
✓tanium(IV) oxide	≥20 - ≤30	Listed	191
Crystalline silica	≥10 - ≤20	Listed	165-2
Xylene	≤10	Listed	136
Petroleum naphtha	≤10	Listed	330
Trimethylbenzene	≤10	Listed	404
Ethylbenzene	≤10	Listed	70
Aluminium oxide	≤10	Listed	189
Propylene glycol monomethyl ether	≤10	Listed	496

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

None of the components are listed.

Mutagen

45 Descriptions in fermionations

15. Regulatory information

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)

Ingredient name	%	Status	Reference number
X ylene	≤10	Priority assessment	125
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
Ethylbenzene	≤10	Priority assessment	50
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Cumene	≤10	Priority assessment	126
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
Naphthalene	≤10	Priority assessment	76

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.

15. Regulatory information

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

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 5 February 2024
Date of previous issue	: 9/8/2021
Version	: 8
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 that has changed from previously issued version.

Notice to reader

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