# **SAFETY DATA SHEET**

SIGMACOVER 456 BASE RED



### Date of issue 8 April 2024

Version 1

1. Product and company identification		
Product name	: SIGMACOVER 456 BASE RED	
Product code	: 000001201564	
Other means of identification	: 00476572	
Product type	: Liquid.	
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	: 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 number	: 078 574 2777	

## 2. Hazards identification

<b>GHS Classification</b>	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
	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 2
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -
	Category 2
GHS label elements	
Hazard pictograms	
	$\langle \langle \rangle \rangle \langle \langle \rangle \rangle \langle \langle \rangle \rangle \langle \langle \rangle \rangle \rangle$
	$\mathbf{v}  \mathbf{v}  \mathbf{v}  \mathbf{v}$
Signal word	: Danger

Product code 000001201564 Product name SIGMACOVER	456 BA	Date of issue 8 April 2024 SE RED	Version 1
2. Hazards identifi	catio	n	
Hazard statements	Cau May Cau May May May Cau resp Cau	nmable liquid and vapor. ses skin irritation. cause an allergic skin reaction. ses serious eye irritation. cause allergy or asthma symptoms or breathing difficulties cause drowsiness or dizziness. cause cancer. damage fertility or the unborn child. ses damage to organs. (central nervous system (CNS), kic biratory organs) ses damage to organs through prolonged or repeated expo ans, nervous system, respiratory organs) ic to aquatic life with long lasting effects.	lneys, liver,
Precautionary statements			
Prevention	have eye surfa outd brea thore	ain special instructions before use. Do not handle until all s e been read and understood. Wear protective gloves, prote or face protection. Wear respiratory protection. Keep awa aces, sparks, open flames and other ignition sources. No s loors or in a well-ventilated area. Avoid release to the envir athe vapor. Do not eat, drink or smoke when using this pro oughly after handling. Contaminated work clothing should workplace.	ective clothing and by from heat, hot moking. Use only ronment. Do not duct. Wash
Response	INH/ POIS sym imm with IF IN lense med	ect spillage. IF exposed or concerned: Call a POISON CE ALED: Remove person to fresh air and keep comfortable for SON CENTER or doctor if you feel unwell. If experiencing ptoms: Call a POISON CENTER or doctor. IF ON SKIN (or rediately all contaminated clothing. Rinse skin with water. I plenty of water. If skin irritation or rash occurs: Get medic N EYES: Rinse cautiously with water for several minutes. R es, if present and easy to do. Continue rinsing. If eye irrita lical advice or attention.	or breathing. Call a respiratory or hair): Take off F ON SKIN: Wash al advice or attention. emove contact tion persists: Get
Storage	: Store	e locked up. Store in a well-ventilated place. Keep contain	er tightly closed.
Disposal		oose of contents and container in accordance with all local, international regulations.	regional, national
Other hazards which do not result in classification	: Prole	onged or repeated contact may dry skin and cause irritation	٦.

# 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
Epoxy Resin	20 - <25	SUB110652	Not available.
Xylene	15 - <20	1330-20-7	3-3; 3-60
barium sulfate	15 - <20	7727-43-7	1-89
Epoxy resin (MW ≤ 700)	5 - <7	25068-38-6	(7)-1279
Talc containing no asbestos or quartz	5 - <7	14807-96-6	Not available.
Ethylbenzene	3 - <5	100-41-4	3-28; 3-60
isobutyl alcohol	0.5 - <1	78-83-1	2-3049
titanium dioxide (excluding nanoparticle)	0.5 - <1	13463-67-7	1-558; 5-5225
crystalline silica (quartz)	0.1 - <0.2	14808-60-7	1-548
<u> </u>		Jap	an Page: 2/16

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Product name SIGMACOVER 456 BASE RED			
3. Composition/information on	ingredients	;	
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	0.1 - <0.2	100545-48-0	Not available.
Rosin	0.1 - <0.2	8050-09-7	7-935

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.

Description of necess	ary first aid measures
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

#### 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 allergy or asthma symptoms or breathing difficulties if inhaled.
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/sympton	<u>15</u>
Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation :	Adverse symptoms may include the following: wheezing and breathing difficulties asthma 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
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Product code 00000120156 Product name SIGMACOVE		Date of issue 8 April 2024	Version 1
4. First aid measu	ures		
Ingestion	reduced fetal weigh increase in fetal dea skeletal malformation	aths	
Notes to physician		n of decomposition products in a fire, sympto on may need to be kept under medical survei	
Specific treatments	: No specific treatme	ent.	
Protection of first-aiders	is suspected that fu mask or self-contai	taken involving any personal risk or without s umes are still present, the rescuer should we ined breathing apparatus. It may be danger e mouth-to-mouth resuscitation. Wash conta	ar an appropriate ous to the person

See toxicological information (Section 11)

5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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 nitrogen oxides sulfur 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.
	on appropriate personal protective equipment.

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Product name SIGMACOVER 456 BASE RED				
6. Accidental relea	ase measures			
For emergency responders	information in Section	is required to deal with the spillage, take no 8 on suitable and unsuitable materials. Se n-emergency personnel".		
Environmental precautions	and sewers. Inform the pollution (sewers, wat	lled material and runoff and contact with soin ne relevant authorities if the product has car rerways, soil or air). Water polluting materia eased in large quantities. Collect spillage.	used environmental	
Methods and materials for co	ontainment and cleanin	i <u>g up</u>		
Small spill	explosion-proof equip Alternatively, or if wate	sk. Move containers from spill area. Use sp ment. Dilute with water and mop up if wate er-insoluble, absorb with an inert dry materi posal container. Dispose of via a licensed v	r-soluble. al and place in an	
Large spill	explosion-proof equip sewers, water courses effluent treatment plan combustible, absorbe and place in containen Dispose of via a licens material may pose the	sk. Move containers from spill area. Use sp ment. Approach release from upwind. Pre s, basements or confined areas. Wash spil nt or proceed as follows. Contain and collec nt material e.g. sand, earth, vermiculite or or r for disposal according to local regulations sed waste disposal contractor. Contaminat e same hazard as the spilled product. Note formation and Section 13 for waste disposal	vent entry into lages into an ct spillage with non- liatomaceous earth (see Section 13). ed absorbent : see Section 1 for	

### 7. Handling and storage

Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease 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.
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 accordance 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. Product name SIGMACOVER 456 BASE RED

### 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Xylene	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 <sup>3</sup> 8 hours.
Talc containing no asbestos or quartz	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 <sup>3</sup> 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m <sup>3</sup> 8 hours. Form: Total dust (Class 1 Dust)
Ethylbenzene	Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-M: 87 mg/m <sup>3</sup> 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.
isobutyl alcohol	Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 150 mg/m <sup>3</sup> 8 hours. OEL-M: 50 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 50 ppm 8 hours.
crystalline silica (quartz)	Japan Society for Occupational Health (Japan, 9/2022). [Respirable crystalline silica]
Rosin	OEL-C: 0.03 mg/m <sup>3</sup> Form: Respirable dust Japan Society for Occupational Health (Japan, 9/2022). Skin sensitizer. Inhalation sensitizer.
	nade to appropriate monitoring standards. Reference to iments for methods for the determination of hazardous required.
controls or other engineering co below any recommend	e ventilation. Use process enclosures, local exhaust ventilation ontrols to keep worker exposure to airborne contaminants ed or statutory limits. The engineering controls also need to st concentrations below any lower explosive limits. Use tion 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.

#### Individual protection measures

8. Exposure cor	ntrols/personal protection
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	<ul> <li>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.</li> </ul>
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	: Red.		
Odor	: Aromatic. [Strong]		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 27°C (80.6°F)		
Relative density	: 1.4		
Solubility(ies)	Media	Result	
Solubility(les)	cold water	Not soluble	
Viscosity	: 60 - 100 s (ISO 6mr	n)	

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# 10. Stability and reactivity

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

### **11. Toxicological information**

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 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	-
isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/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	-
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	LC50 Inhalation Dusts and mists	Rat	5.05 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-
Rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-

#### Irritation/Corrosion

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

### **Sensitization**

## **11. Toxicological information**

Product/ingredient name	Route of exposure	Species	Result
Epoxy resin (MW ≤ 700) Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	skin skin	Mouse Guinea pig	Sensitizing Sensitizing

#### **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
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
isobutyl alcohol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Rosin	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Xylene	Category 1	-	nervous system, respiratory organs
barium sulfate	Category 1	-	respiratory organs
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Ethylbenzene	Category 1	-	hearing organs, nervous system
titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
crystalline silica (quartz)	Category 1	-	immune system, kidneys, respiratory organs

### **Aspiration hazard**

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

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11	Tovicological	information						

Information on the likely routes of exposure	:	Not available.
Potential acute health effe	cts	
Eye contact		Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled
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.
Symptoms related to the p	ohysi	ical, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: wheezing and breathing difficulties asthma 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
Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effe	ects	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 ef	ffect	<u>s</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.
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### 11. Toxicological information

- Carcinogenicity
- : May cause cancer. Risk of cancer depends on duration and level of exposure.
- **Mutagenicity Reproductive toxicity**
- : No known significant effects or critical hazards. : 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)
SIGMACOVER 456 BASE RED	32194.1	3612.5	N/A	35.5	N/A
Xylene	4300	1700	N/A	11	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	2500	N/A	N/A	N/A	5.05
Rosin	7600	2500	N/A	N/A	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
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	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	-
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >10 mg/l Acute LC50 >10 mg/l	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	48 hours 96 hours

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Epoxy resin (MW ≤ 700) Ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	OECD 301F - 301D Ready Biodegradability - Closed Bottle Test	5 % - 28 days 79 % - Readily - 10 days 22 % - 28 days	-	

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### 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene Epoxy resin (MW ≤ 700) Ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	-	Readily Not readily Readily Inherent

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	7.4 to 18.5	Low
Epoxy resin (MW ≤ 700)	3	31	Low
Ethylbenzene	3.6	79.43	Low
isobutyl alcohol	1	-	Low
Octadecanoic acid,	>5.86	-	High
12-hydroxy-, reaction			
products with			
ethylenediamine			
Rosin	1.9 to 7.7	-	High

Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: 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	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

UN : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.
 IMDG : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
 IATA : None identified.

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 II petroleums	III	Flammable - Keep Fire Away	1000 L

#### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Xylene	18	Class 1	80
Ethylbenzene	3.2	Class 1	53

#### **Industrial Safety and Health Act**

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

Ingredient name	%	Status	Reference number
Ethyl benzene		Group-2 Substances under Supervision	3-3

#### Substance(s) requiring labelling

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### 15. Regulatory information

Ingredient name	%	Status	Reference number
5	≥10 - ≤20	Listed	136
	≤10	Listed	70
	≤10	Listed	477
	≤10	Listed	165-2

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Xylene	≥10 - ≤20	Listed	136
Ethylbenzene	≤10	Listed	70
Butanol	≤10	Listed	477
Titanium(IV) oxide	≤10	Listed	191
Crystalline silica	≤10	Listed	165-2
Rosin	≤10	Listed	632

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

None of the components are listed.

#### **Mutagen**

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable
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
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
Xylene Ethylbenzene [alpha-(Alkyl(C16-18))-omega-hydroxypoly(oxyethane- 1,2-diyl) or alpha-(alkenyl(C16-18))-omega-hydroxypoly (oxyethane-1,2-diyl)] (It is limited that the number-average molecular weight of the polymer is less than 1,000.)	≥10 - ≤20 ≤10 ≤10	Priority assessment Priority assessment Priority assessment	125 50 250
Toluene Benzene Sodium alkyl(C8-18) sulfate	≤10 ≤10 ≤10	Priority assessment Priority assessment Priority assessment	46 45 214

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

	Jamen Bener 45/4
	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)
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
Prepared by	: EHS
Version	: 1
Date of previous issue	: No previous validation
<u>History</u> Date of issue/Date of revision	: 8 April 2024

## 16. Other information

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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