# SAFETY DATA SHEET

#### **SIGMARINE 48 RED**



Date of issue 15 April 2024

**Version 1** 

## 1. Product and company identification

Product name : SIGMARINE 48 RED
Product code : 000001201856
Other means of : 00476943

identification

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

GHS Classification : FLAMMABLE LIQUIDS - Category 3

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B

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 3

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 2

**GHS label elements** 

Hazard pictograms









Signal word : Danger

**Hazard statements** : Flammable liquid and vapor.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause drowsiness or dizziness.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure. (central

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## 2. Hazards identification

nervous system (CNS))
Harmful to aquatic life.

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. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. 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: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: 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.

Storage Disposal

- : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification

Other hazards which do not : 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
Naphtha (petroleum), hydrodesulfurized heavy	25 - <50	64742-82-1	Not available.
n-Nonane	1 - <2	111-84-2	2-9
1,2,4-Trimethylbenzene	0.5 - <1	95-63-6	3-3427; 3-7
titanium dioxide (excluding nanoparticle)	0.5 - <1	13463-67-7	1-558; 5-5225
Silica silicon dioxide containing crystalline and	0.2 - < 0.5	7631-86-9	1-548
amorphous			
Xylene	0.2 - < 0.5	1330-20-7	3-3; 3-60
2-ethylhexanoic acid, zirconium salt	0.2 - < 0.5	22464-99-9	2-615
cobalt(II) 2-ethylhexanoate	0.2 - < 0.5	136-52-7	2-615
1,3,5-Trimethylbenzene	0.1 - < 0.2	108-67-8	3-3427; 3-7
Isopropyl alcohol	0.1 - < 0.2	67-63-0	2-207
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.

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## 4. First aid measures

#### **Description of necessary 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**: No known significant effects or critical hazards.

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**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

**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

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**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.

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## 4. First aid measures

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 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".

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.

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## 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** 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.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

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** 

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# 8. Exposure controls/personal protection

Ingredient name	Exposure limits
n-Nonane	Japan Society for Occupational Health
	(Japan, 9/2022).
	OEL-M: 1050 mg/m <sup>3</sup> 8 hours.
	OEL-M: 200 ppm 8 hours.
1,2,4-Trimethylbenzene	Japan Society for Occupational Health
	(Japan, 9/2022).
	OEL-M: 120 mg/m³ 8 hours.
	OEL-M: 25 ppm 8 hours.
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/m³ 8 hours.
cobalt(II) 2-ethylhexanoate	Japan Society for Occupational Health
	(Japan, 9/2022). [Cobalt and compounds
	without tungsten carbide, (as Co)] Skin
	sensitizer. Inhalation sensitizer.
4.0.5 Trips of the discussion	OEL-M: 0.05 mg/m³, (as Co) 8 hours.
1,3,5-Trimethylbenzene	Japan Society for Occupational Health
	(Japan, 9/2022).
	OEL-M: 35 npm 8 hours.
le annen de aleahal	OEL-M: 25 ppm 8 hours.
Isopropyl alcohol	Japan Society for Occupational Health
	(Japan, 9/2022). OEL-C: 980 mg/m <sup>3</sup>
	OEL-C: 400 ppm
	Industrial Safety and Health Act (Japan,
	6/2020).
	TWA: 200 ppm 8 hours.
Rosin	Japan Society for Occupational Health
KOSIII	(Japan, 9/2022). Skin sensitizer.
	Inhalation sensitizer.
	ililialation Sensitizer.

# procedures

**Recommended monitoring**: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Appropriate engineering** controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **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.

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# 8. Exposure controls/personal protection

Eye protection Skin protection : Safety glasses with side shields.

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 : Red.

Odor : Aromatic. [Slight]

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 38°C (100.4°F)

Relative density : 0.98

Solubility(ies) : Media Result

cold water Not soluble

**Viscosity** : 60 - 100 s (ISO 6mm)

## 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.

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# 10. Stability and reactivity

**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 metal oxide/oxides

# 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum),	LD50 Oral	Rat	>5000 mg/kg	-
hydrodesulfurized heavy				
n-Nonane	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapor	Rat	16790 mg/m <sup>3</sup>	4 hours
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	5 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	-
Silica silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	-
containing crystalline and				
amorphous				
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
cobalt(II) 2-ethylhexanoate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3129 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 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	

### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

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# 11. Toxicological information

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
n-Nonane	Category 2	-	central nervous
			system (CNS)
	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Silica silicon dioxide containing crystalline and amorphous	Category 3	-	Respiratory tract
			irritation
Xylene	Category 1	-	central nervous
			system (CNS),
			kidneys, liver,
	Category 3		respiratory organs Narcotic effects
1 2 5 Trimothylhonzono	Category 3		
1,3,5-Trimethylbenzene		-	Respiratory tract irritation
	Category 3		Narcotic effects
Isopropyl alcohol	Category 1	-	central nervous
			system (CNS),
	0.1		systemic toxicity
	Category 3		Respiratory tract irritation
Rosin	Category 3	-	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1	-	central nervous system (CNS)
1,2,4-Trimethylbenzene	Category 1	-	central nervous system (CNS), respiratory organs
titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Silica silicon dioxide containing crystalline and amorphous	Category 1	-	immune system, kidneys, respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
1,3,5-Trimethylbenzene	Category 1	-	central nervous system (CNS), respiratory organs
Isopropyl alcohol	Category 1 Category 2	-	blood system liver, respiratory organs, spleen

### **Aspiration hazard**

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# 11. Toxicological information

Name	Result
Naphtha (petroleum), hydrodesulfurized heavy	ASPIRATION HAZARD - Category 1
n-Nonane	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

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**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

**Ingestion** : Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**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 effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

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# 11. Toxicological information

#### Potential chronic health effects

**General** : Causes damage to organs through prolonged or repeated exposure. Prolonged or

> repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

: May cause cancer. Risk of cancer depends on duration and level of exposure. Carcinogenicity

: No known significant effects or critical hazards. Mutagenicity

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)
SIGMARINE 48 RED	N/A	5499.9	N/A	155.4	N/A
n-Nonane	N/A	N/A	N/A	16.79	N/A
1,2,4-Trimethylbenzene	5000	N/A	N/A	18	N/A
Xylene	4300	1700	N/A	11	N/A
cobalt(II) 2-ethylhexanoate	3129	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene	5000	N/A	N/A	24	N/A
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
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
titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Silica silicon dioxide containing crystalline and amorphous	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
•	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene	-	-	Readily

#### **Bioaccumulative potential**

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# 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
n-Nonane	5.65	-	High
1,2,4-Trimethylbenzene	3.63	120.23	Low
Xylene	3.12	7.4 to 18.5	Low
1,3,5-Trimethylbenzene	3.42	186.21	Low
Isopropyl alcohol	0.05	-	Low
Rosin	1.9 to 7.7	-	High

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

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

# 14. Transport information

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Naphtha (petroleum), hydrodesulfurized heavy)	Not applicable.

#### **Additional information**

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# 14. Transport information

UN : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2

and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.2.

: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in **IMDG** packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2

and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.

IATA : 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 II petroleums	III	Flammable - Keep Fire Away	1000 L

### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Nonane	1.9	Class 2	791
Trimethylbenzene	1.0	Class 1	691

#### **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

Ingredient name	%	Status	Reference number
Petroleum naphtha Nonane	≥30 - ≤40 ≤10	Listed Listed	330 432
Trimethylbenzene	≤10	Listed	404
Crystalline silica Xylene	≤10 ≤10	Listed Listed	165-2 136
Cobalt and its compounds	≤10 ≤10	Listed	172

#### **Chemicals requiring notification**

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# 15. Regulatory information

Ingredient name	%	Status	Reference number
Petroleum naphtha	≥30 - ≤40	Listed	330
Nonane	≤10	Listed	432
Trimethylbenzene	≤10	Listed	404
Titanium(IV) oxide	≤10	Listed	191
Crystalline silica	≤10	Listed	165-2
Xylene	≤10	Listed	136
Cobalt and its compounds	≤10	Listed	172
Propyl alcohol	≤10	Listed	494
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 : Inflammable

**Occupational Safety and Health Law** 

Regulations on the : Not listed

**Prevention of Tetraalkyl** 

**Lead Poisoning** 

: Not listed **Harmful Substances** 

**Subject to Obtaining** 

**Permission for Manufacturing** 

Harmful Substances, : Not listed

**Prohibited for Manufacturing** 

**ISHL Enforcement Order** : Inflammable

**Appendix 1 - Dangerous** 

**Substances** 

**Lead regulation** : Not listed : Not applicable. **Organic solvents** 

poisoning prevention

### **Poisonous and Deleterious Substances**

None of the components are listed.

#### **Chemical Substances Control Law (CSCL)**

Ingredient name	%	Status	Reference number
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
Xylene	≤10	Priority assessment	125
[alpha-(Alkyl(C16-18))-omega-hydroxypoly(oxyethane-	≤10	Priority assessment	250
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.)			
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Isopropyl alcohol	≤10	Priority assessment	102
Butan-2-one oxime	≤10	Priority assessment	262
2-Butoxyethanol	≤10	Priority assessment	109
Cumene	≤10	Priority assessment	126

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Ethylbenzene	≤10	Priority assessment	50
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
n-Hexane	≤10	Priority assessment	3
Hydroquinone	≤10	Priority assessment	203

**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 2B **List of Specially Controlled** : Not listed

**Industrial Waste** 

: Not determined. Japan inventory **Road law** : Not available.

## 16. Other information

#### **History**

Date of issue/Date of

revision

: 15 April 2024

**Date of previous issue** : No previous validation

**Version** : 1 **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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## 16. Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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