SAFETY DATA SHEET



Date of issue 4/20/2025 (month/day/year)

Version 1

Section 1. Chemical product and company identification

A. Product name : SIGMARINE 48 RAL 1003

Product code : 000010022937

Other means of identification

00254135

B. Relevant identified uses of the substance or mixture and uses advised against

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

Email Address

: PPG SSC

(680-090)

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

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

Emergency telephone

number:

: +82-52-210-8331

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 4
SKIN IRRITATION - Category 2

GERM CELL MUTAGENICITY - Category 1B

CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3

This product is classified in accordance with the Industrial Safety and Health Act and

the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol :



Signal word : Danger

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Section 2. Hazards identification

Hazard statements : H227 - Combustible liquid.

> H315 - Causes skin irritation. H340 - May cause genetic defects.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

: P202 - Do not handle until all safety precautions have been read and understood. **Prevention**

P280 - Wear protective gloves, protective clothing and eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment. P264 - Wash thoroughly after handling.

: P370 + P378 - In case of fire: Never use water to extinguish. Response

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

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

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

P321 - Specific treatment (see the label).

: P403 - Store in a well-ventilated place. **Storage**

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

national and international regulations.

not result in classification

C. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
Naphtha (petroleum), hydrodesulfurized heavy	Naphtha (petroleum), hydrodesulfurized heavy	CAS: 64742-82-1	30 - <40
C.I. PIGMENT YELLOW 74	ARYLIDE PIGMENT YELLOW 74	EC: 265-185-4 CAS: 6358-31-2	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	EC: 228-768-4 CAS: 14807-96-6 EC: 238-877-9	1 - <5
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	1 - <5
ZIRCONIUM 2-ETHYLHEXANOATE	ZIRCONIUM 2-ETHYLHEXANOATE	EC: 265-199-0 CAS: 22464-99-9	0.1 - <1
Ethanol	ETHYL ALCOHOL	EC: 245-018-1 CAS: 64-17-5 EC: 200-578-6	0.1 - <1
2-ethylhexanoic acid cobalt(2+) salt	COBALT OCTOATE	CAS: 136-52-7 EC: 205-250-6	0.1 - <1
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	CAS: 64742-88-7	0.1 - <1
		EC: 265-191-7	

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Section 3. Composition/information on ingredients

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.

Section 4. First aid measures

A. Eye contact

: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

B. Skin contact

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

C. Inhalation

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

D. Ingestion

: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

E. Notes to physician

: 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 Protection of first-aiders : No specific treatment.

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)

Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media : Do not use water jet.

B. Specific hazards arising from the chemical

: Combustible liquid. 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 harmful 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

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Section 5. Fire-fighting measures

C. Special equipment for fire-fighting

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- : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Fire-fighting procedures:
- : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
- : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- B. Environmental precautions
- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- C. Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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.

Section 7. Handling and storage

- A. Precautions for safe handling
- : Put on appropriate personal protective equipment (see Section 8). 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 ingest. Avoid breathing vapor or mist. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

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.

B. Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 2 mg/m³. Form: Respirable
	fraction.
ZIRCONIUM 2-ETHYLHEXANOATE	ISHA Article 42 (Republic of Korea,
	1/2020) [Zirconium and compounds]
	STEL 15 minutes: 10 mg/m³ (as Zr).
	TWA 8 hours: 5 mg/m³ (as Zr).
Ethanol	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 1000 ppm.
2-ethylhexanoic acid cobalt(2+) salt	ISHA Article 42 (Republic of Korea,
	1/2020) [Cobalt and inorganic
	compounds]
	TWA 8 hours: 0.02 mg/m³.
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	ACGIH TLV (United States)
	TWA: 400 ppm.

Recommended monitoring procedures

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

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

C. Personal protective equipment

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Section 8. Exposure controls/personal protection

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.

Chemical splash goggles. Eye 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 : butvl rubber

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

being performed and the risks involved and should be approved by a specialist

before handling this product.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and

safety showers are close to the workstation location.

Section 9. Physical and chemical properties

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

A. Appearance

Physical state : Liquid.

Color Not available. B. Odor Characteristic. C. Odor threshold : Not available. D. pH : Not applicable. E. Melting/freezing point : Not available. : >37.78°C (>100°F)

F. Boiling point/boiling

range

G. Flash point : Closed cup: 61°C (141.8°F)

: Not available. H. Evaporation rate Flammability (solid, gas) : Not available. J. Lower and upper

explosive (flammable)

limits

: Not available.

K. Vapor pressure

V		por Pressure at 20°C		Vapor pressure at 50°C		re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Solvent naphtha (petroleum), light aromatic	1.500123	0.2				

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Section 9. Physical and chemical properties

L. Solubility(ies) : Media Result cold water Not soluble

Solubility in water : Not available.

Vapor density : Not available.

Relative density : 0.97

N. Partition coefficient: n-

O. octanol/water

Auto-ignition temperature

: Not applicable.

Ingredient name

°C

°F

Method

2-[(2-methoxy-4-nitrophenyl)azo]-N(2-methoxyphenyl)-3-oxobutyramide

Decomposition : Not available.

temperature

R.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Flow time (ISO 2431) : Not available.

Molecular weight : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

Possibility of hazardous

reactions

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

B. Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

products.

C. Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

D. Hazardous : Depending on conditions, decomposition products may include the following

decomposition products materials: carbon oxides nitrogen oxides metal oxide/oxides

Section 11. Toxicological information

A. Information on the likely : Not available. routes of exposure

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.
 Skin contact : Causes skin irritation. Defatting to the skin.
 Eye contact : No known significant effects or critical hazards.

Over-exposure signs/symptoms

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Section 11. Toxicological information

Inhalation : Adverse symptoms may include the following:

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

Skin contact: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrodesulfurized heavy	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
C.I. PIGMENT YELLOW 74	LD50 Oral	Rat	10000 mg/kg	-
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
ZIRCONIUM 2-ETHYLHEXANOATE	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
2-ethylhexanoic acid cobalt(2+) salt	LD50 Dermal	Rabbit	>5 g/kg	-
,	LD50 Oral	Rat	3129 mg/kg	-
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

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

Irritation/Corrosion

Conclusion/Summary

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

Sensitization

Conclusion/Summary

There are no data available on the mixture itself.

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Section 11. Toxicological information

Skin

Respiratory: There are no data available on the mixture itself.

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
C.I. PIGMENT YELLOW 74	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
ZIRCONIUM 2-ETHYLHEXANOATE	Category 2	-	-
Ethanol	Category 3	-	Narcotic effects
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
	Category 2 Category 1	-	-

Aspiration hazard

Name	Result
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Potential chronic health effects

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

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

Mutagenicity: May cause genetic defects.

Reproductive toxicity: May damage fertility or the unborn child.

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Section 11. Toxicological information

Additional information

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Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
Naphtha (petroleum), hydrodesulfurized heavy	CAS: 64742-82-1	FLAMMABLE LIQUIDS - Category 2
Tieavy	EC: 265-185-4	SKIN IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B ASPIRATION HAZARD - Category 1
C.I. PIGMENT YELLOW 74	CAS: 6358-31-2 EC: 228-768-4	AQUATIC HAZARD (LONG-TERM) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	EC: 238-877-9 CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
LIGHT AROWATIC	EC: 265-199-0	SKIN IRRITATION - Category 2
ZIRCONIUM 2-ETHYLHEXANOATE	CAS: 22464-99-9 EC: 245-018-1	GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Eth I		EXPOSURE) - Category 2
Ethanol	CAS: 64-17-5 EC: 200-578-6	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
2-ethylhexanoic acid cobalt(2+) salt	CAS: 136-52-7 EC: 205-250-6	SKIN IRRITATION - Category 2 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	CAS: 64742-88-7	FLAMMABLE LIQUIDS - Category 3
	EC: 265-191-7	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE

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Section 11. Toxicological info	ormation
	EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
C.I. PIGMENT YELLOW 74 SOLVENT NAPHTHA	Acute LC50 >100 mg/l Acute LC50 8.2 mg/l	Fish Fish	96 hours 96 hours
(PETROLEUM), LIGHT AROMATIC	- Table 2000 to 2 mg/		
ZIRCONIUM 2-ETHYLHEXANOATE	Acute LC50 >100 mg/l	Fish	96 hours
Ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

B. Persistence and degradability

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

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Naphtha (petroleum), hydrodesulfurized heavy	-	10 to 2500	High
C.I. PIGMENT YELLOW 74	2	-	Low
Ethanol	-0.35	-	Low

D. Mobility in soil

Soil/Water partition coefficient

: Not available.

E. Other adverse effects : 1

: No known significant effects or critical hazards.

Section 13. Disposal considerations

A. Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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Section 13. Disposal considerations

B. Disposal precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
A. UN number	UN3082	UN3082	UN3082
B. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Naphtha (petroleum), hydrodesulfurized heavy, Solvent naphtha (petroleum), light aromatic)	(Naphtha (petroleum), hydrodesulfurized heavy, Solvent naphtha (petroleum), light aromatic)	(Naphtha (petroleum), hydrodesulfurized heavy, Solvent naphtha (petroleum), light aromatic)
C. Transport hazard class(es)	9	9	9
D. Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
E. Marine pollutant substances	Not applicable.	(Naphtha (petroleum), hydrodesulfurized heavy)	Not applicable.

Additional information

UN

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, 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.

IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, 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.

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

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Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture)

: None of the components are listed.

ISHA article 118 (Harmful substances : None of the components are listed.

requiring permission) **Article 2 of Youth Protection**

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

Act on Substances Hazardous

to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

ISHA Enforcement Regs : The following components are listed: cobalt and its inorganic compounds

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs

Annex 11-5 (Harmful factors subject to Work : The following components are listed: talc / soapstone

Environment Measurement)

Annex 22 (Harmful Factors Subject to Special Health Checkup)

ISHA Enforcement Regs: None of the components are listed.

Standard of Industrial **Safety and Health**

Annex 12 (Hazardous substances subject to control)

: None of the components are listed.

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Cobalt and its compounds

Article 18 Prohibited (K-

Reach Article 27)

: None of the components are listed.

Article 19 Subject to

authorization (K-Reach Article 25)

: None of the components are listed.

Article 20 Restricted (K-

Reach Article 27)

: None of the components are listed.

Article 20 Toxic

Chemicals (K-Reach

: Toxic

Article 20)

Korea inventory : All components are listed or exempted. **Article 39 (Accident** : None of the components are listed.

Precaution Chemicals)

Korea (GHS)

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Product name SIGMARINE 48 RAL 1003

Section 15. Regulatory information

C. <u>Dangerous Materials</u> Safety Management Act : Class: Class 4 - Flammable Liquid

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

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

D. <u>Wastes regulation</u>: Dispose of contents and container in accordance with all local, regional, national

and international regulations.

E. Regulation according to other foreign laws

Safety, health and environmental regulations specific for

the product

: No known specific national and/or regional regulations applicable to this product

(including its ingredients).

Section 16. Other information

A. References : Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

NIER Notice

Registry of Toxic Effects of Chemical Substances (RTECS)

U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

B. First issue date : 4/20/2025
 C. Date of issue/Date of : 4/20/2025

revision

D. Version : 1
Prepared by : EHS

E. Other

Indicates information that has changed from previously issued version.

Disclaimer

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

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