SAFETY DATA SHEET

SIGMATHERM 540 ALUMINIUM/RAL9006



Date of issue 13 August 2024

Version 3

1. Product and company identification

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: SIGMATHERM 540 ALUMINIUM/RAL9006		
: 00437532		
: Liquid.		
f the substance or mixture and uses advised against		
: Professional applications, Used by spraying.		
: Coating.		
: Not applicable.		
: PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777		
: 078 574 2777		

2. Hazards identification

Signal word Hazard statements
-
GHS label elements Hazard pictograms

Product code 00437532	Date of issue 13 August 2024 Version 3	
Product name SIGMATHERM 540 ALUMINIUM/RAL9006		
2. Hazards identifi	cation	
	Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs) Causes damage to organs through prolonged or repeated exposure. (hearing organs, nervous system, respiratory organs) Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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.	
Response	: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.	
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.	
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.	

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

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

Ingredient name	%	CAS number	CSCL
X ylene	20 - <25	1330-20-7	3-3; 3-60
aluminium metal	15 - <20	7429-90-5	Not available.
Solvent naphtha (petroleum), heavy arom	7 - <10	64742-94-5	Not available.
Propylene glycol monomethyl ether	7 - <10	107-98-2	2-404; 7-97
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	5 - <7	2530-83-8	2-2071
Ethyl Benzene	3 - <5	100-41-4	3-28; 3-60
1-Butanol, titanium(4+) salt (4:1), homopolymer	1 - <2	9022-96-2	2-2175; 2-2192
Toluene	0.2 - <0.5	108-88-3	3-2; 3-60
Crystalline silica (quartz)	0.1 - <0.2	14808-60-7	1-548
Methanol	0.1 - <0.2	67-56-1	2-201

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 necess	ary first aid measures
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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

	Japan Page: 3/1
Specific treatments	: No specific treatment.
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
ndication of immediate r	nedical attention and special treatment needed, if necessary
	stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	skeletal malformations Adverse symptoms may include the following:
	pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths
Skin contact	increase in fetal deaths skeletal malformations : Adverse symptoms may include the following:
	headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight
Inhalation	: Adverse symptoms may include the following: nausea or vomiting
	pain watering redness
<u>Over-exposure signs/sy</u> Eye contact	: Adverse symptoms may include the following:
-	central nervous system (CNS) depression.
Ingestion	 causes damage to organs following a single exposure in contact with skin. skin irritation. Defatting to the skin. Causes damage to organs following a single exposure if swallowed. Can cause
Skin contact	dizziness.Causes damage to organs following a single exposure in contact with skin. Causes
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or
Eye contact	: Causes serious eye damage.

4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use dry chemical, CO₂, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In from the chemical 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 may include the following materials: carbon oxides decomposition products metal oxide/oxides Special protective actions : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters 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** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

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. Do not breathe 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

6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe 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 breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non- sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must

Section 10 for incompatible materials before handling or use.

be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
X ylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene]
	TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023).
	OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m ³ 8 hours.
aluminium metal	Japan Society for Occupational Health (Japan, 5/2023). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite,
	Japan Page: 5/15

8. Exposure controls/personal protection

•	· ·	Diatomite, Graphite, Kaolinite, Pagodite,	
		Pyrites, Pyrite cinder)]	
		OEL-M: 0.5 mg/m ³ 8 hours. Form:	
		Respirable dust (Class 1 Dust)	
		OEL-M: 2 mg/m ³ 8 hours. Form: Total dust	
		(Class 1 Dust)	
Ethyl Benzene		Japan Society for Occupational Health	
		(Japan, 5/2023). Absorbed through skin.	
		OEL-M: 87 mg/m ³ 8 hours.	
		OEL-M: 20 ppm 8 hours.	
		Industrial Safety and Health Act (Japan,	
		6/2020).	
		TWA: 20 ppm 8 hours.	
Toluene		Japan Society for Occupational Health	
		(Japan, 5/2023). Absorbed through skin.	
		OEL-M: 188 mg/m ³ 8 hours.	
		OEL-M: 50 ppm 8 hours.	
		Industrial Safety and Health Act (Japan,	
		6/2020).	
Crystelline ellice (TWA: 20 ppm 8 hours.	
Crystalline silica (quartz)		Japan Society for Occupational Health	
		(Japan, 5/2023). [Respirable crystalline	
		silica]	
		OEL-C: 0.03 mg/m ³ Form: Respirable dust	
Methanol		Japan Society for Occupational Health	
		(Japan, 5/2023). Absorbed through skin.	
		OEL-M: 260 mg/m ³ 8 hours.	
		OEL-M: 200 ppm 8 hours.	
		Industrial Safety and Health Act (Japan,	
		6/2020).	
		TWA: 200 ppm 8 hours.	
Recommended monitoring	. Reference should be made to appror	priate monitoring standards. Reference to	
procedures		thods for the determination of hazardous	
procedures	substances will also be required.		
Appropriate engineering		Jse process enclosures, local exhaust ventilation	
controls		worker exposure to airborne contaminants	
		limits. The engineering controls also need to	
		ns below any lower explosive limits. Use	
	explosion-proof ventilation equipment	t.	
Environmental exposure	: Emissions from ventilation or work pr	ocess equipment should be checked to ensure	
controls		environmental protection legislation. In some	
		ineering modifications to the process equipment	
	will be necessary to reduce emission		
	,	•	
Individual protection measures			
		an all a stand han all an all and a standard to the test of	
Hygiene measures		oughly after handling chemical products, before	
		ry and at the end of the working period.	
		ed to remove potentially contaminated clothing.	
		eusing. Ensure that eyewash stations and	
	safety showers are close to the works		
Eye protection	: Chemical splash goggles and face sh	nield.	
Skin protection			

8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber
	Recommended: polyvinyl alcohol (PVA), butyl rubber, Viton®
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9. Physical and chemical properties

<u>Appearance</u> Physical state	: Liquid.		
Color	: White.		
Odor	: Aromatic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 30°C (8	6°F)	
Relative density	: 1.18		
Colubility/ico)	Media	Result	
Solubility(ies)	cold water	Not soluble	

10. Stability and reactivity			
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		
Chemical stability	: The product is stable.		
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.		

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10. Stability and	reactivity		
Incompatible materials	: Keep away from the following oxidizing agents, strong alka	g materials to prevent strong exothern is, strong acids.	nic reactions:

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

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	-
aluminium metal	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Solvent naphtha (petroleum), heavy arom	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	-
Propylene glycol monomethyl ether	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
2	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
2-{[3-(Trimethoxysilyl) propoxy]methyl}oxirane	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
	LD50 Oral	Rat	7.01 g/kg	-
Ethyl Benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
Methanol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

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

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Kylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
aluminium metal	Category 1	-	respiratory organs
Solvent naphtha (petroleum), heavy arom	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Propylene glycol monomethyl ether	Category 3	-	Narcotic effects
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	Category 3	-	Respiratory tract irritation
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1-Butanol, titanium(4+) salt (4:1), homopolymer	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Toluene	Category 1	-	central nervous system (CNS)
	Category 3		Respiratory tract
	Category 3		Narcotic effects
Methanol	Category 1	-	central nervous system (CNS), systemic toxicity,
	Category 3		visual organ Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
X ylene	Category 1	-	nervous system, respiratory organs
aluminium metal	Category 1	-	respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
Toluene	Category 1	-	central nervous system (CNS), kidneys
Crystalline silica (quartz)	Category 1	-	immune system, kidneys, respiratory organs
Methanol	Category 1	-	central nervous system (CNS), visual organ

Aspiration hazard

Name	Result
Ethyl Benzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain watering redness	
Inhalation	Adverse symptoms may include the following: 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: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations	

Delayed and immediate effect	ts	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
General	1	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.
Carcinogenicity	1	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	Suspected of causing genetic defects.
Reproductive toxicity	1	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)
SIGMATHERM 540 ALUMINIUM/RAL9006	29518.7	5521.7	N/A	36.0	N/A
Xylene	4300	1700	N/A	11	N/A
Bropulana glucal manamathul athar	5200	13000	N/A	11	N/A
Propylene glycol monomethyl ether 2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane Ethyl Benzene	7010 3500	N/A 17800	N/A N/A N/A	N/A 17.8	N/A N/A N/A
1-Butanol, titanium(4+) salt (4:1), homopolymer	500	N/A	N/A	N/A	N/A
Toluene	5580	8390	N/A	11	N/A
Methanol	500	15800	64000	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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

12. Ecological information

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Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum),	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
heavy arom Propylene glycol monomethyl ether	Acute LC50 23300 mg/l	Daphnia	48 hours
-	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
2-{[3-(Trimethoxysilyl) propoxy]methyl}oxirane	Acute EC50 255 mg/l Fresh water	Algae	72 hours
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
?-{[3-(Trimethoxysilyl) propoxy]methyl}oxirane Ethyl Benzene	-	37 % - Not readily - 28 days 79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis	<u> </u>	Biodeg	radability
▼ylene 2-{[3-(Trimethoxysilyl) propoxy]methyl}oxirane Ethyl Benzene Toluene	- - - -		- - -		Readily Not rea Readily Readily	adily /

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12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	7.4 to 18.5	Low
Solvent naphtha (petroleum),	2.8 to 6.5	-	High
heavy arom			_
Propylene glycol	<1	-	Low
monomethyl ether			
Ethyl Benzene	3.6	79.43	Low
Toluene	2.73	8.32	Low
Methanol	-0.77	-	Low

<u>Mobility in soil</u>	
Soil/water partition coefficient (K _{oc})	: 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 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		
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

14. Transport information

Additional information

- UN: None identified.IMDG: None identified.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		Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
₩ylene	21	Class 1	80
Trimethoxy-[3-(oxiran-2-ylmethoxy)propyl]silane	5.9	Class 1	693
Ethylbenzene	3.7	Class 1	53

Industrial Safety and Health Act

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

Ingredient name	%		Reference number
ethyl benzene	≤10	Special Organic Solvents	3-3

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
▼ylenePetroleum naphthaPropylene glycol monomethyl etherEthylbenzeneCrystalline silica	≥20 - ≤30	Listed	136
	≤10	Listed	330
	≤10	Listed	496
	≤10	Listed	70
	≤10	Listed	165-2

Chemicals requiring notification

Ingredient name	%	Status	Reference number
X ylene	≥20 - ≤30	Listed	136
Aluminium and its water-soluble salts	≥10 - ≤20	Listed	37
Petroleum naphtha	≤10	Listed	330
Propylene glycol monomethyl ether	≤10	Listed	496
Ethylbenzene	≤10	Listed	70
Toluene	≤10	Listed	407
Crystalline silica	≤10	Listed	165-2
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15. Regulatory information				
Methanol	≤10	Listed	560	
Carcinogens based on Article 577-2 of the Ordi	nance on ISH			
Ingredient name	%	Status	Reference number	
quartz	≤10	Listed	-	
Mutagen				

None of the components are listed.

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

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
X ylene	≥20 - ≤30	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
Toluene	≤10	Priority assessment	46
1-Butanol	≤10	Priority assessment	124
Sodium salt of saturatedfatty acid(C8-18, normal chain) or unsaturatedfatty acid(C16-18, normal chain)	≤10	Priority assessment	172
Benzene	≤10	Priority assessment	45

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

Product name SIGMATHERM 540 ALUMINIUM/RAL9006

15. Regulatory information

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

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None of the components are listed.

JSOH Carcinogen	: Group 1
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 13 August 2024
Date of previous issue	: 10/7/2022
Version	: 3
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

V Indicates information that has changed from previously issued version.

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