SAFETY DATA SHEET

SIGMASHIELD 420 BASE REDBROWN 6179



Date of issue 26 September 2024

Version 3

1. Product and company identification

Product name	: SIGMASHIELD 420 BASE REDBROWN 6179
Product code	: 00445402
Product type	: Liquid.
Relevant identified uses of	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	: ₱PG 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	 AMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer.

Japan

2. Hazards identification

Causes damage to organs through prolonged or repeated exposure. (hearing organs, nervous system, respiratory organs) Very toxic to aquatic life with long lasting effects.

Precautionary statements		
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	1	Store locked up.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number: Not applicable.CSCL number: Not available.			
Ingredient name	%	CAS number	CSCL
Polycondensate of 4,4'-isopropylidenediphenol	25 - <50	14808-60-7	1-548
and 1-chloro-2,3-epoxypropane (liquid only)	20 - <25	25068-38-6	7-1283
Talc (containing no asbestos or quartz)	7 - <10	14807-96-6	Not available.
Xylene	7 - <10	1330-20-7	3-3; 3-60
Diiron trioxide	5 - <7	1309-37-1	1-357; 5-5188
isobutyl alcohol	1 - <2	78-83-1	2-3049
Ethyl Benzene	1 - <2	100-41-4	3-28; 3-60
nonylphenol	1 - <2	25154-52-3	3-503
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	0.5 - <1	911674-82-3	Not available.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Description of necessary f	rst 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
Potential acute health eff	<u>cts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Causes damage to organs following a single exposure if swallowed.
<u>Over-exposure signs/syn</u>	<u>ptoms</u>

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: 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

Indication of immediat	e medical attention a	nd special treatment ne	eded, if necessary

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	1	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 ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very 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 halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protect	tive 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 co	ntainment and cleaning up

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

6. Accidental release measures

Large spill

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

7. Handling and storage

Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which handling this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
vystalline silica, respirable powder (>10 microns)	Japan Society for Occupational Health (Japan, 5/2023). [Respirable crystalline silica] OEL-C: 0.03 mg/m ³ Form: Respirable dust
Talc (containing no asbestos or quartz)	Japan Society for Occupational Health (Japan, 5/2023). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, 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)
	Japan Page: 5/16

8. Exposure controls/personal protection

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cases, fume scrubbers, filters or engineer will be necessary to reduce emissions to a ndividual protection measures	
will be necessary to reduce emissions to a necessary to reduce emissions to a	
ndividual protection measures	o 1 1 1
eating, smoking and using the lavatory an	
	y after handling chemical products, before
Contaminated work clothing should not be	y after handling chemical products, before
contaminated clothing before reusing. En	ly after handling chemical products, before d at the end of the working period. remove potentially contaminated clothing.
showers are close to the workstation loca	y after handling chemical products, before d at the end of the working period. remove potentially contaminated clothing. allowed out of the workplace. Wash sure that eyewash stations and safety
Eye protection : Chemical splash goggles and face shield.	y after handling chemical products, before d at the end of the working period. remove potentially contaminated clothing. allowed out of the workplace. Wash sure that eyewash stations and safety
Skin protection	y after handling chemical products, before d at the end of the working period. remove potentially contaminated clothing. allowed out of the workplace. Wash sure that eyewash stations and safety
	y after handling chemical products, before d at the end of the working period. remove potentially contaminated clothing. allowed out of the workplace. Wash sure that eyewash stations and safety

8. Exposure controls/personal protection

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

9. Physical and chemical properties

<u>Appearance</u>						
Physical state	: Liquid.					
Color	: Brownish-red.					
Odor	: Characteristic.					
Boiling point	: >37.78°C (>100°F)					
Flash point	: Closed cup: 25°C (77°F	·)				
Relative density	: 1.38					
	Media	Result				
Solubility(ies)	cold water	Fold water Not soluble				

10. Stability and reactivity Reactivity : No specific test data related to reactivity available for this product or its ingredients. Chemical stability : The product is stable. Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur. Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Date of issue 26 September 2024

Product name SIGMASHIELD 420 BASE REDBROWN 6179

10. Stability and reactivity

Hazardous decomposition products

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

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
✓olycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
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	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
♥olycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	skin	Mouse	Sensitizing

Mutagenicity

11. Toxicological information

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
ralc (containing no asbestos or quartz) Xylene	Category 1 Category 1	-	respiratory organs central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Diiron trioxide	Category 1	-	respiratory organs
isobutyl alcohol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
nonylphenol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
✓alc (containing no asbestos or quartz)	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
nonylphenol	Category 2	-	bladder, kidneys

Aspiration hazard

Name	Result
<mark>X</mark> ylene	ASPIRATION HAZARD - Category 1
Ethvl Benzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	S	
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Causes damage to organs following a single exposure if swallowed.

11. Toxicological information

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: 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	nd also chronic effects from short and long term exposure	
<u>Short term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff		
General	Causes damage to organs through prolonged or repeated exposure. Prolonge repeated contact can defat the skin and lead to irritation, cracking and/or derma Once sensitized, a severe allergic reaction may occur when subsequently exponsion very low levels.	atitis.
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	f
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	May damage fertility or the unborn child.	

Numerical measures of toxicity

Acute toxicity estimates

11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMASHIELD 420 BASE REDBROWN 6179 Polycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	38880.9 2500	4858.8 2500	N/A N/A	86.0 N/A	N/A N/A
Xylene	4300	1700	N/A	11	N/A
Diiron trioxide	10000	N/A	N/A	N/A	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
nonylphenol	580	2140	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
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	OECD 301F	5 % - 28 days	-	-
Ethyl Benzene	-	79 % - Readily - 10 days	-	-

12. Ecological information

	-		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓olycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	-	-	Not readily
Xylene Ethyl Benzene	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓olycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane	2.64 to 3.78	31	Low
(liquid only) Xylene	3.12	7.4 to 18.5	Low
isobutyl alcohol	1	-	Low
Ethyl Benzene nonylphenol	3.6 3.28	79.43 154.88	Low Low

<u>Mobility in soil</u>	
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 sewers.

14. Transport information

	1		1
	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	Ш
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.	Feaction product: bisphenol-A- (epichlorohydrin); epoxy resin)	Not applicable.

Additional information

UN: None identified.IMDG: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.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
Kylene	8.4	Class 1	80
Ethylbenzene	1.5	Class 1	53
Alkylphenol (limited to those the alkyl group is C9)	1.5	Class 1	320

Industrial Safety and Health Act

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

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

Substance(s) requiring labelling

Japan	Page:	13/16

Date of issue 26 September 2024

Product name SIGMASHIELD 420 BASE REDBROWN 6179

15. Regulatory information

Ingredient name	%	Status	Reference number
✔rystalline silica	≥30 - ≤40	Listed	165-2
Xylene	≤10	Listed	136
Iron oxide	≤10	Listed	192
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70

Chemicals requiring notification

Ingredient name	%	Status	Reference number
🖉 rystalline silica	≥30 - ≤40	Listed	165-2
Xylene	≤10	Listed	136
Iron oxide	≤10	Listed	192
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70

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

Ingredient name	%		Reference number
øuartz	≥30 - ≤40	Listed	-

<u>Mutagen</u>

Ingredient name	%	Status	Reference
			number
sphenol A type epoxy resin intermediate	≥20 - ≤30	Listed	110

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

Ingredient name	%	Status	Reference number
Fonylphenol	1.4917	Deleterious	2-1-78-2

Japan Page: 14/16

Japan

15. Regulatory information

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
Polycondensate of 4,4'-isopropylidenediphenol and	≥20 - ≤30	Priority assessment	87
1-chloro-2,3-epoxypropane (liquid only)			
Xylene	≤10	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
2,2,4,4,6,6,8,8-Octamethyl-	≤10	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane		_	
Cumene	≤10	Priority assessment	126
Acetaldehyde	≤10	Priority assessment	26
Formaldehyde	≤10	Priority assessment	25
Ethylene oxide	≤10	Priority assessment	19
1,4-Dioxane	≤10	Priority assessment	80
Chloromethane	≤10	Priority assessment	6
1-Butanol	≤10	Priority assessment	124
2,6-Di-tert-butyl-4-methylphenol	≤10	Priority assessment	64

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

JSOH Carcinogen	:	Group 1
List of Specially Controlled Industrial Waste	:	Not listed
Japan inventory	:	Not determined.
Road law	:	Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 26 September 2024
Date of previous issue	: 10/8/2021
Version	: 3
Prepared by	: EHS

Product code 00445402 Date of issue 26 September Version 3 2024 Product name SIGMASHIELD 420 BASE REDBROWN 6179 16. Other information 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,

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.

Notice to reader

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.

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)