# SAFETY DATA SHEET

SIGMACOVER 410 BASE BRIGHT ALUMINIUM



#### Date of issue 18 May 2021

Version 6

# 1. Product and company identification

Product name	: SIGMACOVER 410 BASE BRIGHT ALUMINIUM	
Product code	: 00371685	
Product type	: Liquid.	
Relevant identified uses of the substance or mixture and uses advised against		

Relevant Identified uses of the substance of mixture and uses advised against		
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Supplier's details	: PPG PMC Japan Co., Ltd. 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Tel : +81 78 574 2777 Fax : +81 78 576 0035	
Emergency telephone number	: 078 574 2777	

# 2. Hazards identification

GHS Classification	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2
	SKIN IKKITATION - Calegory 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 (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1
GHS label elements	
Hazard pictograms	
Hazaru pictograms	$ \land \land$

Signal word

: Danger

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2. Hazards identifi	ation
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory system) Causes damage to organs through prolonged or repeated exposure. (nervous system, respiratory system) Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Øbtain 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. 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 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 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	: 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	: Prolonged or repeated contact may dry skin and cause irritation.

### result in classification

# 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
aluminium metal	15 - <20	7429-90-5	Not available.
crystalline silica, respirable powder (>10 microns)	15 - <20	14808-60-7	1-548
Epoxy resin (MW ≤ 700)	10 - <12.5	25068-38-6	(7)-1279
Talc (containing no asbestos or quartz)	7 - <10	14807-96-6	Not available.
Xylene	5 - <7	1330-20-7	3-3; 3-60
Naphtha (petroleum), hydrotreated heavy	5 - <7	64742-48-9	Not available.
Solvent naphtha (petroleum), light aromatic	5 - <7	64742-95-6	Not available.
nonylphenol	3 - <5	25154-52-3	3-503
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - &lt;5</td><td>25036-25-3</td><td>Not available.</td></mw<=1100)<>	3 - <5	25036-25-3	Not available.
isobutyl alcohol	3 - <5	78-83-1	2-3049
Phenol, methylstyrenated	3 - <5	68512-30-1	Not available.
zeolites	1 - <2	1318-02-1	Not available.
<u>'</u>	•	Jap	an Page: 2/16

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

1,3-phenylenedimethanamine

Description of necessary first aid measures		
Eye contact	<ul> <li>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.</li> </ul>	
Inhalation	<ul> <li>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.</li> </ul>	
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	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>	

Most important symptoms/effects, acute and delayed		
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	May cause respiratory irritation.
Skin contact	1	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.
Over-exposure signs/symp	ton	<u>ns</u>
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing 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

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4. First aid measu	ires
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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, 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.

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6. Accidental releas	se measures
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 con	tainment 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 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage :	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in 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.

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### 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits		
aluminium metal	Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 0.5 mg/m <sup>3</sup> 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m <sup>3</sup> 8 hours. Form: Total dust (Class 1 Dust)		
crystalline silica, respirable powder (>10 microns)	Japan Society for Occupational Health (Japan, 5/2020).		
Talc (containing no asbestos or quartz)	OEL-C: 0.03 mg/m <sup>3</sup> Form: Respirable dust Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 0.5 mg/m <sup>3</sup> 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m <sup>3</sup> 8 hours. Form: Total dust (Class 1 Dust)		
Xylene	ISHL (Japan, 6/2020). TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m <sup>3</sup> 8 hours.		
isobutyl alcohol	Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 150 mg/m <sup>3</sup> 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 6/2020). TWA: 50 ppm 8 hours.		
ethyl benzene	Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 217 mg/m <sup>3</sup> 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 6/2020). TWA: 20 ppm 8 hours.		
of the ventilation or other of protective equipment. Ref standards. Reference to r	redients with exposure limits, personal, workplace nonitoring may be required to determine the effectiveness control measures and/or the necessity to use respiratory ference should be made to appropriate monitoring national guidance documents for methods for the s substances will also be required.		
controls or other engineering control below any recommended keep gas, vapor or dust co	ntilation. Use process enclosures, local exhaust ventilation ols to keep worker exposure to airborne contaminants or statutory limits. The engineering controls also need to oncentrations below any lower explosive limits. Use equipment.		
Environmental exposure controls : Emissions from ventilation they comply with the requi cases, fume scrubbers, fill	plosion-proof ventilation equipment. issions from ventilation or work process equipment should be checked to ensure y comply with the requirements of environmental protection legislation. In some ses, fume scrubbers, filters or engineering modifications to the process equipment be necessary to reduce emissions to acceptable levels.		

#### Individual protection measures

# 8. Exposure controls/personal protection

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye protection	: Chemical splash goggles and face shield.	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
Gloves	: butyl rubber	
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the being performed and the risks involved and should be approved by a specialis before handling this product. When there is a risk of ignition from static elective wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.</li> <li>Appropriate footwear and any additional skin protection measures should be</li> </ul>	
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	<ul> <li>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 necessary.</li> </ul>	

# 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Silver-white.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 36°C (96.8°F)
Relative density	: 1.26
Solubility	: Insoluble in the following materials: cold water.
Viscosity	: Not Applicable

# 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.

 Incompatible materials
 : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

 Hazardous decomposition
 : 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

products

Product/ingredient name	Result	Species	Dose	Exposure
aíuminium metal	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Epoxy resin (MW ≤ 700)	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	-
Naphtha (petroleum),	LD50 Dermal	Rabbit	>5000 mg/kg	-
hydrotreated heavy				
	LD50 Oral	Rat	>6 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
5	LD50 Oral	Rat	8400 mg/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
51	LD50 Oral	Rat	580 mg/kg	-
Epoxy Resin (700 <mw &lt;=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/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	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
zeolites	LD50 Oral	Rat	>5 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	-
Reaction products of	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic			- U	
acid and octadecanoic acid				
and				
1,3-phenylenedimethanamine				

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

#### **Sensitization**

## 11 Toxicological information

Product/ingredient name	Route of exposure	Species	Result
Epoxy resin (MW $\leq$ 700)	skin	Mouse	Sensitizing

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

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

Name	Category	Route of exposure	Target organs
aluminium metal	Category 1	-	respiratory system
Talc (containing no asbestos or quartz)	Category 1	-	respiratory system
Xylene	Category 1	-	central nervous
			system (CNS),
			kidneys, liver,
			respiratory system
	Category 3		Narcotic effects
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract
			irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
nonylphenol	Category 3	-	Respiratory tract
			irritation
isobutyl alcohol	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
ethyl benzene	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects

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

Name	Category	Route of exposure	Target organs
aluminium metal	Category 1	-	respiratory system
Talc (containing no asbestos or quartz)	Category 1	-	respiratory system
Xylene	Category 1	-	nervous system, respiratory system
nonylphenol	Category 2	-	bladder, kidneys
zeolites	Category 1	-	respiratory system
ethyl benzene	Category 2	-	hearing organs

#### **Aspiration hazard**

Name	Result
Xylene	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethyl benzene	ASPIRATION HAZARD - Category 1

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# **11. Toxicological information**

Information on the likely routes of exposure	:	Not available.
Potential acute health effec	<u>ts</u>	
Eye contact	:	Causes serious eye damage.
Inhalation	:	May cause respiratory irritation.
Skin contact	1	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.
Symptoms related to the ph	iys	ical, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing 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 Short term exposure	<u>ts</u>	and also chronic effects from short and long term exposure
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

- **Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- **Mutagenicity** : No known significant effects or critical hazards.

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### 11. Toxicological information

**Reproductive toxicity** 

: May damage fertility or the unborn child.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMACOVER 410 BASE BRIGHT ALUMINIUM	6146.1	5166.4	N/A	73.4	N/A
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
nonylphenol	580	2140	N/A	N/A	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
ethyl benzene	3500	17800	N/A	17.8	N/A

#### Other information

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

### **12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
,	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
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 - Daphnia magna	21 days
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
zeolites	Acute LC50 >680 mg/l	Fish	96 hours
ethyl benzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and	Acute LC50 >100 mg/l	Fish	96 hours
1,3-phenylenedimethanamine			

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	-	-

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12. Ecological information					
Product/ingredient name	Aquatic half-life	Photolysis	Biod	egradability	
Epoxy resin (MW ≤ 700) Xylene ethyl benzene	- - -		Not r Read Read		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
Xylene	3.12	7.4 to 18.5	low
nonylphenol	3.28	154.88	low
isobutyl alcohol	1	-	low
Phenol, methylstyrenated	3.627	-	low
ethyl benzene	3.6	79.43	low

#### Mobility in soil

Soil/water partition coefficient (Koc)	:	Not available.
Mobility	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

### 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimized wherever possible. ι. 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 nonrecyclable 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			
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14. Transpo	rt information				
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	hazardou	e environmentally s substance mark is not required.	
Marine pollutant substances	Not applicable.	(Epoxy resin (MW  ≤ 700), Solvent naphtha (petroleum), light aromatic)	N	ot applicable.	

#### Additional information

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: 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	%		Reference number
Nonylphenol	6.3051	Class 1	80
	4.9975	Class 1	320
	1.1318	Class 1	53

#### <u>ISHL</u>

#### Use of specified chemical substances

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

#### Substances requiring labelling

Ingredient name	%	Status	Reference number
Auminium and its water-soluble salts	≥10 - ≤25	Listed	37
Crystalline silica	≥10 - ≤25	Listed	165-2
Xylene	≤10	Listed	136
Petroleum naphtha	≤10	Listed	330
Butanol	≤5.0	Listed	477
Ethylbenzene	≤1.4	Listed	70

#### **Chemicals requiring notification**

### Product name SIGMACOVER 410 BASE BRIGHT ALUMINIUM

# 15. Regulatory information

Ingredient name	%	Status	Reference number
Muminium and its water-soluble salts	≥10 - ≤25	Listed	37
Crystalline silica	≥10 - ≤25	Listed	165-2
Xylene	≤10	Listed	136
Petroleum naphtha	≤10	Listed	330
Butanol	≤5.0	Listed	477
Ethylbenzene	≤1.4	Listed	70

#### **Carcinogen**

Ingredient name	%		Reference number
ethylbenzene	≤1.4	Listed	-

#### <u>Mutagen</u>

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Flammable liquid Class 4
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
Dangerous Substances	: Inflammable
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Class 2

#### **Poisonous and Deleterious Substances**

Ingredient name	%		Reference number
ronylphenol	4.9725	Deleterious	78-2

#### Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
<b>X</b> ylene	6.3051	Priority assessment	125
Ethylbenzene	1.1318	Priority assessment	50
Toluene	0.03757	Priority assessment	46
Phenol	0.0035	Priority assessment	62
Isopropenylbenzene; alpha-Methylstyrene	0.0035	Priority assessment	48
Benzene	0.0011223	Priority assessment	45
Methanol	0.00059716	Priority assessment	90
2,2,4,4,6,6,8,8-Octamethyl-	0.00036	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane;		C C	
Octamethylcyclotetrasiloxane			
		Japan	Page: 14/1

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Cumene Acetaldehyde Formaldehyde Ethylene oxide; Oxirane 1,4-Dioxane		0.0000098 0.00000038 0.00000028 0.00000028 0.00000016	Priority assessment Priority assessment Priority assessment Priority assessment Priority assessment	126 26 25 19 80
Chloromethane; Methyl chlori	de	0.00000016	Priority assessment	6
High Pressure Gas Control Law	: Not available.			
Law				
Explosives Control Law				
None of the components are	listed			
None of the components are	liotod.			
Law Concerning Prevention of Pollution of the Ocean and Maritime Disaster	: Not available.			
Maritime Safety Law				
Notification Regulating Tran	eportation of Dangorous	Matorials by Soa		
		materials by Sea		
None of the components are	listed.			
Container class				
None of the components are	listed			
None of the components are				
JSOH Carcinogen	: Group 1			
List of Specially Controlled Industrial Waste	: Not listed			
Japan inventory	: All components are lis	ted or exempted.		
Road law	: Not available.			

# 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 18 May 2021
Date of previous issue	: 9/21/2020
Version	: 6
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>
Indicates information the	at has changed from providually issued version

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

#### Product name SIGMACOVER 410 BASE BRIGHT ALUMINIUM

### 16. Other information

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