# **SAFETY DATA SHEET**



#### The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 26 April 2024 Version 7.01

Section 1. Identif	fication
Product name	: SIGMACOVER 456 BASE RAL 5012
Product code	: 00247557
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier	<ul> <li>PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121</li> </ul>
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

## Section 2. Hazard identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract</li> </ul>
	Health Hazards Not Otherwise Classified - Category 1

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### Section 2. Hazard identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

GHS label elements	······································	
Hazard pictograms		
Signal word	Danger	
Hazard statements	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (hearing organs) Prolonged or repeated contact may dry skin and cause irritation.	
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. Do not breathe vapor. Do not eat, drink or smoke when using this product Wash thoroughly after handling. Contaminated work clothing should not be allow out of the workplace.	ł :.
Response	IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER 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 EYE Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.	R or ES:
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.	
Supplemental label elements	Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or r from spray applications. 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. Wash thoroughly after handling. Emits toxic fumes when heated.	m

### Product name SIGMACOVER 456 BASE RAL 5012

## Section 2. Hazard identification

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 48.5% (oral), 54.2% (dermal), 74.1% (inhalation)

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMACOVER 456 BASE RAL 5012
Other means of identification	: Not available.

#### **CAS number/other identifiers**

ngredient name	Synonyms	% (w/w)	CAS number
poxy Resin		10 - 30*	Not available.
crystalline silica, respirable powder (<10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica- Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	10 - 30*	14808-60-7
xylene	Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-,; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture)	10 - 30*	1330-20-7
barium sulfate	Sulfuric acid, barium salt (1:1); CI 77120; Barytes; Barium salt of sulfuric acid; Barite; Artificial barite; barium sulphate; C. I. Pigment White 21; barium sulfate, natural; blanc fixe; C.I. 77120	10 - 30*	7727-43-7
Epoxy resin (MW  ≤ 700)	reaction product : bisphenol a- (epichlorhydrin) ; epoxy resin ( number average molecular weight <= 700)	3 - 7*	25068-38-6
iitanium dioxide	Titanium oxide; Titanium oxide (TiO2); CI 77891; Titanium peroxide; Rutile; C.I. Pigment White 6; titanium dioxide coated with isopropoxytitanium triisostearate, containing by weight 1,5 % or more but not more than 2,5 % of isopropoxytitanium triisostearate; glass flakes (CAS RN 65997-17-3): — of a thickness of 0,3 $\mu$ m or more but not more than 10 $\mu$ m, and — coated with titanium dioxide (CAS RN 13463-67-7) or iron oxide (CAS RN 18282- 10-5); titanium dioxide, other than those of heading 3206 11 00; C.I. 77891; E 171; titanium(IV) oxide, other than those of heading 3206 11 00	3 - 7*	13463-67-7
Talc not containing ashestiform fibre	s Talc; magnesium silicate monohydrate	3 - 7*	14807-96-6

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### Section 3. Composition/information on ingredients

	(talc) not containing asbestiform fibres		
ethylbenzene	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropyloxycarbonyl orchloropropyloxycarbonyl) benzene	1 - 5*	100-41-4
2-methylpropan-1-ol	iso-butanol; 1-Propanol, 2-methyl-; Isobutyl alcohol; Isobutanol; 2-Methyl- 1-propanol; Isopropylcarbinol; IBA; i-Butyl alcohol; catalyst consisting predominantly of dinonylnaphthalenedisulphonic acid in the form of a solution in isobutanol; isobutanol; iso-butanol; Isobutyl alcohol (I, T)	0.5 - 1.5*	78-83-1
1-methoxy-2-propanol	monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy- 2-hydroxypropane; 2-Methoxy- 1-methylethanol; PGME; mixture containing by weight: — 69 % or more but not more than 71 % of 1-methoxypropan- 2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy- 1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol	0.5 - 1.5*	107-98-2

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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

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

### Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact

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

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## Section 4. First-aid measures

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 effe		
Eye contact	: Causes serious eye irritation.	
Inhalation	: Harmful if inhaled. May cause respiratory irritation.	
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction	n.
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/sym	<u>ms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing	
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking	
Ingestion	No specific data.	
Indication of immediate me	al attention and special treatment needed, if necessary	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	)
Specific treatments	No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. is suspected that fumes are still present, the rescuer should wear an appropriat mask or self-contained breathing apparatus. It may be dangerous to the persor providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothin thoroughly with water before removing it, or wear gloves.	te n

See toxicological information (Section 11)

## Section 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.

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## Section 5. Fire-fighting measures

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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides sulfur 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.

## Section 6. Accidental release measures

Personal precautions, protect	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	onta	ainment 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.

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## Section 7. Handling and storage

### Precautions for safe handling

Protective measures	:	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. 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. 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.
Special precautions	:	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
₽poxy Resin crystalline silica, respirable powder (<10 microns)	None. <b>CA British Columbia Provincial (Canada,</b> <b>6/2022). [Silica, Crystalline - alpha quartz</b> <b>and Cristobalite Respirable]</b> TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable <b>CA Ontario Provincial (Canada, 6/2019).</b> <b>[Silica, Crystalline (Quartz/Tripoli)]</b> TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable <b>CA Quebec Provincial (Canada, 6/2022).</b> <b>[Silica Crystalline -Quartz]</b> TWAEV: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust.
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## Section 8. Exposure controls/personal protection

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	CA Alberta Provincial (Canada, 6/2018). OEL: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form:
xylene	respirable fraction <b>CA Alberta Provincial (Canada, 6/2018).</b> <b>[Dimethylbenzene (o,m &amp; p isomers)]</b> OEL: 651 mg/m <sup>3</sup> 15 minutes. OEL: 150 ppm 15 minutes. OEL: 434 mg/m <sup>3</sup> 8 hours.
	OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m & p isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
	CA Quebec Provincial (Canada, 6/2022). [Xylene (o-,m-,p- isomers)] STEV: 651 mg/m <sup>3</sup> 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 434 mg/m <sup>3</sup> 8 hours. TWAEV: 100 ppm 8 hours.
	CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
barium sulfate	CA British Columbia Provincial (Canada, 6/2022). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable particulate matter. CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m <sup>3</sup> 15 minutes. TWA: 10 mg/m <sup>3</sup> 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 5 mg/m <sup>3</sup> 8 hours. Form: inhalable dust
Epoxy resin (MW ≤ 700) titanium dioxide	dust None. CA British Columbia Provincial (Canada, 6/2022). [Titanium dioxide] TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m³ 8 hours. Form: Total dust.
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Section 8. Exposure controls/pers	sonal protection
	CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. OEL: 10 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m <sup>3</sup> 15 minutes. TWA: 10 mg/m <sup>3</sup> 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
Talc , not containing asbestiform fibres	<ul> <li>CA British Columbia Provincial (Canada, 6/2022).</li> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>CA Ontario Provincial (Canada).</li> <li>TWA: 2 ppb Form: Respirable</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>TWAEV: 2 mg/m<sup>3</sup> 8 hours. Form:</li> <li>Respirable dust.</li> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>OEL: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate matter.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> </ul>
ethylbenzene	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: respirable fraction <b>CA Alberta Provincial (Canada, 6/2018).</b> OEL: 543 mg/m <sup>3</sup> 15 minutes. OEL: 125 ppm 15 minutes. OEL: 434 mg/m <sup>3</sup> 8 hours. OEL: 100 ppm 8 hours. <b>CA British Columbia Provincial (Canada, 6/2022).</b> TWA: 20 ppm 8 hours. <b>CA Ontario Provincial (Canada, 6/2019).</b>
	TWA: 20 ppm 8 hours. <b>CA Quebec Provincial (Canada, 6/2022).</b> TWAEV: 20 ppm 8 hours. <b>CA Saskatchewan Provincial (Canada,</b> <b>7/2013).</b> STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
2-methylpropan-1-ol	CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. OEL: 152 mg/m <sup>3</sup> 8 hours. OEL: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 152 mg/m <sup>3</sup> 8 hours.
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## Section 8. Exposure controls/personal protection

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	TWAEV: 50 ppm 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 60 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
1-methoxy-2-propanol	CA Alberta Provincial (Canada, 6/2018).
	OEL: 553 mg/m <sup>3</sup> 15 minutes.
	OEL: 355 mg/m 15 minutes.
	OEL: 369 mg/m <sup>3</sup> 8 hours.
	OEL: 100 ppm 8 hours.
	CA British Columbia Provincial (Canada
	6/2022).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	STEL: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
	CA Quebec Provincial (Canada, 6/2022).
	STEV: 553 mg/m <sup>3</sup> 15 minutes.
	STEV: 150 ppm 15 minutes.
	TWAEV: 369 mg/m <sup>3</sup> 8 hours.
	TWAEV: 000 mg/m 6 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures		Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>res</u>	
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/face protection	:	Chemical splash goggles.
Skin protection		

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## Section 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	<ul> <li>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.</li> </ul>
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.

## Section 9. Physical and chemical properties

### **Appearance**

Appearance			
Physical state	1	Liquid.	
Color	1	Blue.	
Odor	1	Aromatic.	
Odor threshold	1	Not available.	
рН	1	Not applicable.	
Melting point	:	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 27°C (80.6°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	1	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	1	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.48	
Density(lbs / gal)	:	12.35	
Solubility/icc)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	

Date of issue 26 April 2024

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## Section 9. Physical and chemical properties

Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	: 27% (v/v), 19.184% (w/w)
% Solid. (w/w)	: 80.816

## Section 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	<ul> <li>When exposed to high temperatures may produce hazardous decomposition products.</li> <li>Refer to protective measures listed in sections 7 and 8.</li> </ul>
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following material carbon oxides sulfur oxides halogenated compounds metal oxide/oxides

## Section 11. Toxicological information

#### Information on toxicological effects

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Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Epoxy resin (MW $\leq$ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Conclusion/Summary	: There are no data available on	the mixture it	self.	

Irritation/Corrosion

### Product name SIGMACOVER 456 BASE RAL 5012

## Section 11. Toxicological information

Product/ingredient name	t name Result			Species Sco		re	Exposure	Observatio	
xylene	Skin	Skin - Moderate irritar		Rabbit	-		24 hours 500	-	
Epoxy resin (MW  ≤ 700)		Eyes - Mild irritant Skin - Mild irritant		Rabbit Rabbit	-		mg - -	-	
Conclusion/Summary							I		
Skin Eyes Respiratory <u>Sensitization</u>	: The	ere are no	data availa	ble on the mixtu ble on the mixtu ble on the mixtu	ure itsel	f.			
Product/ingredient name	Route expos		Species	Species					
Epoxy resin (MW  ≤ 700)	skin		Mouse			Sensitiz	ing		
Skin	: The	ere are no	data availa	ble on the mixtu	ure itsel	f.			
Respiratory	: The	ere are no	data availa	ble on the mixtu	ure itsel	f.			
<u>Autagenicity</u>									
Conclusion/Summary	: The	ere are no	data availa	ble on the mixtu	ure itsel	f.			
<u>Carcinogenicity</u>					•. •				
Conclusion/Summary	: The	ere are no	data availa	ble on the mixtu	ire itsel	t.			
<u>Classification</u>		1	1	1					
Product/ingredient name	Product/ingredient name OSHA			NTP					
erystalline silica, respirable p (<10 microns) xylene	bowder	+ -	1 3	Known to be a -	humar	n carcino	gen.		
titanium dioxide ethylbenzene		-  -	2B 2B	-					
Carcinogen Classification	n code:	Į	ļ	ļ					
IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	e a human	carcinoger	ı; Reasonably	<i>r</i> anticipated to be	a humar	n carcinog	en		
<u>Reproductive toxicity</u> Conclusion/Summary <u>Feratogenicity</u>	: The	ere are no	data availa	ble on the mixtu	ıre itsel	f.			
Conclusion/Summary Specific target organ toxici				ble on the mixtu	ıre itsel	f.			
Name				Category		oute of xposure	Targe	et organs	
				Catagony 2	-		Respi	ratory tract	
xylene				Category 3					
xylene Talc , not containing asbesti	form fibr	es		Category 3	-		irritatio Respi	on ratory tract	
xylene Talc , not containing asbesti 2-methylpropan-1-ol	form fibr	es			-		irritatio Respi irritatio Respi irritatio	on ratory tract on ratory tract	

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### Section 11. Toxicological information

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

Name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, heart, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary
 There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful

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## Section 11. Toxicological information

		depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by
		oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health effe	<u>ect</u>	<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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Normania el mana en en el territo		

### 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 456 BASE RAL 5012	7553.5	2726.6	N/A	17.9	2.3
xylene	4300	1700	N/A	11	1.5
barium sulfate	N/A	2500	N/A	N/A	N/A
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A

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## Section 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
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Epoxy resin (MW ≤ 700) ethylbenzene	OECD 301F -	5 % - 28 days 79 % - Readily - 10 day	- /S -	-
Product/ingredient name	Aquatic half-life	Ph	otolysis	Biodegradability
<mark>xy</mark> lene Epoxy resin (MW  ≤ 700) ethylbenzene				Readily Not readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
Epoxy resin (MW ≤ 700)	3	31	Low
ethylbenzene	3.6	79.43	Low
2-methylpropan-1-ol	1	-	Low
1-methoxy-2-propanol	<1	-	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

## Section 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 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,

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Product name SIGMACOVER 456 BASE RAL 5012

### Section 13. Disposal considerations

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waterways, drains and sewers.
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Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## Section 14. Transport information

TDG	IMDG	ΙΑΤΑ
UN1263	UN1263	UN1263
PAINT	PAINT	PAINT
3	3	3
III		
No.	No.	No.
Not applicable.	Not applicable.	Not applicable.
	UN1263 PAINT 3 III No.	UN1263         UN1263           PAINT         PAINT           3         3           III         III           No.         No.

Additional ir	nformation	
TDG	: None ider	ntified.
IMDG	: None ider	ntified.
ΙΑΤΑ	: None ider	ntified.
Special prec	autions for user	: <b>Transport within user's premises:</b> 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 to IMO instru	bulk according uments	: Not applicable.
Proof of class statement	ssification	: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

## Section 15. Regulatory information

### National Inventory List

Canada inventory ( DSL )

: All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 3 Physical hazards : 0 (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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### Section 16. Other information

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**National Fire Protection Association (U.S.A.)** 

Health : 3 Flammability : 3 Instability : 0	
Date of issue/Date of revision	
Organization that prepared : the SDS	
Key to abbreviations :	

Indicates information that has changed from previously issued version.

#### **Disclaimer**

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