SAFETY DATA SHEET



Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 16 January 2020

Version 6

Date of issue 16 January 2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: SIGMACOVER 456 BASE RAL 6032
Product code	: 00243405
Other means of identification	: Not applicable.
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.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 or + 52 55 5559 1588 (Mexico)
Technical Phone Number	: 888-977-4762

SECTION 2: Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 50.7% (Oral) 56.4% (Dermal) 77.6% (Inhalation)
	50.7% (Oral), 56.4% (Dermal), 77.6% (Inhalation)

GHS label elements

Product name SIGMACOVER 456 BASE RAL 6032

SECTION 2: Hazards identification

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Hazard pictograms



	• • •
Signal word	: Danger
Hazard statements Precautionary statements	 H226 - Flammable liquid and vapor. H332 - Harmful if inhaled. H313 - May be harmful in contact with skin. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H350 - May cause cancer. H335 - May cause respiratory irritation. H372 - Causes damage to organs through prolonged or repeated exposure. (hearing organs)
Prevention	• P201 Obtain appaid instructions before use P202 Do not bandle until all safety
Prevention	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	 P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P352 + P312 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Sanding and grinding dusts may be harmful if inhaled. Prolonged or repeated contact may dry skin and cause irritation. 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. 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. Emits toxic fumes when heated.
See toxicological information	(Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture
Product name

: Mixture : SIGMACOVER 456 BASE RAL 6032

: Not a

Other means of identification

: Not applicable.

Ingredient name	%	CAS number
rystalline silica, respirable powder (<10 microns)	≥20 - ≤50	14808-60-7
Epoxy Resin	≥20 - ≤50	Not available.
xylene	≥10 - ≤14	1330-20-7
barium sulfate	≥10 - ≤14	7727-43-7
Epoxy resin (MW ≤ 700)	≥1.0 - ≤6.1	25068-38-6
Talc, not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6
ethylbenzene	≥1.0 - ≤3.6	100-41-4
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
2-methylpropan-1-ol	≤1.0	78-83-1
1-methoxy-2-propanol	≥1.0 - ≤5.0	107-98-2

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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.
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 symp	toms/effects, acute and delayed
Potential acute healt	<u>h effects</u>
Eye contact	: Causes serious eye irritation.

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. 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

See toxicological information (Section 11)

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
Specific treatments	quantities have been ingested or inhaled.No specific treatment.

SECTION 4: First aid measures

i	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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SECTION 5: Firefighting 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.
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, protec	<u>tiv:</u>	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	ont	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.
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SECTION 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 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.

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
vystalline silica, respirable powder (<10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable
Epoxy Resin	None.
xylene	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
barium sulfate	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 10 mg/m ³ 8 hours.
Epoxy resin (MW ≤ 700)	None.
Talc , not containing asbestiform fibres	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 2 mg/m ³ 15 minutes. Form: Respirable
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
titanium dioxide	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 10 mg/m ³ 8 hours.
2-methylpropan-1-ol	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.
1-methoxy-2-propanol	NOM-010-STPS-2014 (Mexico, 4/2016).
	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

Key to abbreviations

		1109 10 00010
С	= Ceiling Limit	
IPEL	= Internal Permissible Exposure Limit	

STEL = Short term exposure limit TLV = Threshold Limit Value

TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 measures

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SECTION 8: Exposure controls/personal protection

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, be eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated cloth 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.	hing.
Eye/face protection	Chemical splash goggles.	
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard she be worn at all times when handling chemical products if a risk assessment indic this is necessary. Considering the parameters specified by the glove manufactu 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.	ates urer,
Gloves	butyl rubber	
Body protection	Personal protective equipment for the body should be selected based on the tas 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 electric 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.	be
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, th 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 th necessary.	

SECTION 9: Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Green.	
Odor	: Aromatic.	
Odor threshold	: Not available.	
Molecular weight	: Not applicable.	
рН	: Not available.	
Melting point	: Not available.	
Boiling point	: >37.78°C (>100°F)	
Flash point	: Closed cup: 27°C (80.6°F)	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Evaporation rate	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	

SECTION 9: Physical and chemical properties

Relative density	: 1.46
Density(lbs / gal)	: 12.18
Solubility	: Insoluble in the following materials: cold water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm ² /s (>21 cSt)
Volatility	: 27% (v/v), 19.182% (w/w)
% Solid. (w/w)	: 80.818

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	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	ct/ingredient name Result Species		Dose	Exposure	
xylene	LD50 Dermal		>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 ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-	
,	LD50 Oral	Rat	>2 g/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	-	
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	-	
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	LD50 Dermal	Rabbit	13 g/kg	-	
	LD50 Oral	Rat	5.2 g/kg	-	

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SECTION 11: Toxicological information

Conclusion/Summary	Conclusion/Summary : There are no data available on the mixture itself.							
Irritation/Corrosion								
Product/ingredient name	Result			Species	Scor	9	Exposure	Observation
x ylene	Skin - Moderate irri		itant	Rabbit	-		24 hours 500 mg	-
Epoxy resin (MW ≤ 700)	Skin - Mild irritant Eyes - Mild irritant			Rabbit Rabbit	-		-	-
<u>Conclusion/Summary</u> Skin Eyes Respiratory <u>Sensitization</u>	 There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. 							
Product/ingredient name	Route of exposure Species Result							
Epoxy resin (MW ≤ 700)	skin Mouse Sensitizing							
Conclusion/Summary								
Skin	: There are no data available on the mixture itself.							
Respiratory	: There are no data available on the mixture itself.							
Mutagenicity								
Conclusion/Summary	: There are no data available on the mixture itself.							
Carcinogenicity								
Conclusion/Summary	: There a	re no dat	a availab	le on the mi	xture itsel	f.		
<u>Classification</u>								
Product/ingredient name	OSHA	IARC	NTP					
rystalline silica, respirable powder (<10 microns)	-	1	Knowr	n to be a hur	nan carci	nogen.		
xylene	-	3	-					
ethylbenzene titanium dioxide	-	2B 2B	-					
Carcinogen Classificatio	n code:	1	I					

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

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

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

SECTION 11: Toxicological information

Name	Category	Route of exposure	Target organs
x ylene	Category 3	Not applicable.	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	Not applicable.	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 1 Category 2		Not determined 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: 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
ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure

Potential acute health effects

r otential addie fieditif effedt					
Eye contact	Causes serious eye irritation.				
Inhalation	Harmful if inhaled. May cause respiratory irritation.				
Skin contact	May be harmful in contact with skin. Causes skin irritation. Defatting to the sk May cause an allergic skin reaction.	in.			
Ingestion	No known significant effects or critical hazards.				
Over-exposure signs/sympto					
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: rritation redness dryness cracking				
Ingestion	No specific data.				
Delayed and immediate effe	nd also chronic effects from short and long term exposure				

Product name SIGMACOVER 456 BASE RAL 6032

SECTION 11: Toxicological information

Conclusion/Summary	:	There are no data av silica which can caus duration and level of applications. For ma coating formulation. meaningful potential product is applied wit spray applications ma and require the use of controls (see Section excess of the stated such as mucous men the kidneys, liver and headache, dizziness, cases, loss of consci absorption through th organic solvent vapo hearing loss than exp the liquid may cause diarrhea and vomiting immediate effects an term exposure by or	e lung cance exposure to c iny PPG prod In this case, i for human ex th a brush or ay be harmfu of appropriate 8). Exposur occupational mbrane and r l central nerve fatigue, mus ousness. So he skin. Ther rs in combina bected from e irritation and g. This takes d also chroni	r or silicosis. dust from san ucts, TiO2 is the TiO2 part posure to un roller. Sandir I depending of personal pro- te to compone exposure lim espiratory sys- ous system. cular weakne lvents may ca e is some evi- tion with con- exposure to no reversible da into account c effects of co	The risk of c ading surface utilized as a icles are bound bound particle on the duratic otective equip ent solvent va- it may result stem irritation Symptoms a ease some of idence that re- stant loud no oise alone. In mage. Inges , where know omponents fi	cancer depen s or mist from raw material and in a matrix es of TiO2 w g surface or r on and level or oment and/or apor concenta in adverse he and adverse nd signs incluses and signs in	ds on the n spray in a liquid x with no hen the mist from f exposure engineering rations in ealth effects e effects on ude treme ffects by osure to e greater the eyes, use nausea, nd m and long-
Chart tarm ave acura		term exposure by ora			butes of expo	sule and eye	contact.
Short term exposure Potential immediate effects	:	There are no data av	ailable on the	e mixture itsel	lf.		
Potential delayed effects		There are no data av	ailable on the	e mixture itsel	lf.		
Long term exposure							
Potential immediate effects	:	There are no data av	ailable on the	e mixture itsel	lf.		
Potential delayed effects	:	There are no data av	ailable on the	e mixture itsel	lf.		
Potential chronic health effe	ects						
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.	May cause cancer. Risk of cancer depends on duration and level of exposure.				
Mutagenicity	:	No known significan	t effects or cr	itical hazards	i.		
Teratogenicity	:	No known significan	t effects or cr	itical hazards	i.		
Developmental effects	:	No known significan	t effects or cr	itical hazards	i.		
Fertility effects	:	No known significan	t effects or cr	itical hazards	i.		
Numerical measures of toxi	city	-					
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)
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SECTION 11: Toxicological information

SIGMACOVER 456 BASE RAL 6032	7150.1	2012.5	N/A	15.3	2	
xylene	4300	1100	N/A	11	1.5	
barium sulfate	N/A	2500	N/A	N/A	N/A	
Epoxy resin (MW \leq 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	

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
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh	Fish	96 hours
	water		
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
2	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours

Persistence and degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
Epoxy resin (MW ≤ 700)	3	31	low
ethylbenzene	3.15	79.43	low
2-methylpropan-1-ol	0.76	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Product name SIGMACOVER 456 BASE RAL 6032

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, waterways, drains and sewers.

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

	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	111	
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Mexico	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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

Product name SIGMACOVER 456 BASE RAL 6032

SECTION 15: Regulatory information

Mexico

Classification

Flammability : 3 Health : 3 Reactivity : 0

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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. 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.

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.

Organization that prepared : EHS	
the MSDS	
Key to abbreviations: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemical IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations	

Indicates information that has changed from previously issued version.

Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

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.