SAFETY DATA SHEET



Date of issue/Date of revision 12 March 2022 Version 2

Section 1. Identification		
Product name	: SIGMAZINC 105 BASE	
Product code	: 00445088	
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.	
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) 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. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 48.8%
	(oral), 48.8% (dermal), 39% (inhalation)
<u>GHS label elements</u> Hazard pictograms	

United States

Page: 1/17

V

Product name SIGMAZINC 105 BASE

Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 Fighly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. (hearing organs)
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 explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
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 or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. 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. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
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. 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.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMAZINC 105 BASE

Product name SIGMAZINC 105 BASE

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
parium sulfate	≥10 - ≤20	7727-43-7
4-methylpentan-2-one	≥5.0 - ≤11	108-10-1
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	≥5.0 - ≤10	25154-85-2
Epoxy Resin (700 <mw<=1100)< td=""><td>≥1.0 - ≤5.5</td><td>25036-25-3</td></mw<=1100)<>	≥1.0 - ≤5.5	25036-25-3
ethylbenzene	≥1.0 - ≤4.8	100-41-4
xylene	≥1.0 - ≤4.2	1330-20-7
Cement, portland, chemicals	≥1.0 - <3.0	65997-15-1
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥1.0 - ≤5.0	1675-54-3
zinc oxide	≥1.0 - ≤3.7	1314-13-2

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

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.
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 effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
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	: No specific data.

Product name SIGMAZINC 105 BASE

Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Indication of immediate me Notes to physician	 dical attention and special treatment needed, if necessary Treat symptomatically. Contact poison treatment specialist immediately if large guantities 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. 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)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
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.

Product name SIGMAZINC 105 BASE

Section 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. 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.
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.

Product name SIGMAZINC 105 BASE

Section 7. Handling and storage

Special precautions Advice on general occupational hygiene	 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. 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			
parium sulfate	ACGIH TLV (United States, 1/2021).			
	TWA: 5 mg/m³ 8 hours. Form: Inhalable			
	fraction			
	OSHA PEL (United States, 5/2018).			
	TWA: 5 mg/m ³ 8 hours. Form: Respirable			
	fraction			
	TWA: 15 mg/m³ 8 hours. Form: Total dust			
4-methylpentan-2-one	ACGIH TLV (United States, 1/2021).			
	STEL: 75 ppm 15 minutes.			
	TWA: 20 ppm 8 hours.			
	OSHA PEL (United States, 5/2018).			
	TWA: 410 mg/m³ 8 hours.			
	TWA: 100 ppm 8 hours.			
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	None.			
Epoxy Resin (700 <mw<=1100)< td=""><td>None.</td></mw<=1100)<>	None.			
ethylbenzene	ACGIH TLV (United States, 1/2021).			
	TWA: 20 ppm 8 hours.			
	OSHA PEL (United States, 5/2018).			
	TWA: 435 mg/m³ 8 hours.			
	TWA: 100 ppm 8 hours.			
xylene	ACGIH TLV (United States, 1/2021).			
	STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours.			
	TWA: 100 ppm 8 hours.			
	OSHA PEL (United States, 5/2018).			
	United States Page: 6/17			

Product name SIGMAZINC 105 BASE

Section 8. Exposure controls/personal protection

Ceme	ent, portland, chemicals	ТМ АСС	/A: 435 mg/m ³ 8 hours. /A: 100 ppm 8 hours. GIH TLV (United States, 1/2021). /A: 1 mg/m ³ 8 hours. Form: Respirable
bis-[4	-(2,3-epoxipropoxi)phenyl]propane	OSH TW fract TW Non	IA PEL (United States, 5/2018). /A: 5 mg/m ³ 8 hours. Form: Respirable tion /A: 15 mg/m ³ 8 hours. Form: Total dust e.
		TW TW fract TW ACO ST Res	/A: 15 mg/m ³ 8 hours. Form: Total dust SIH TLV (United States, 1/2021). EL: 10 mg/m ³ 15 minutes. Form: pirable fraction /A: 2 mg/m ³ 8 hours. Form: Respirable
А	= Acceptable Maximum Peak	S	= Potential skin absorption
ACGIH C F IPEL OSHA	 Acceptable Maximum Feak American Conference of Governmental Industrial Hygienists. Ceiling Limit Fume Internal Permissible Exposure Limit Occupational Safety and Health Administration. 	SR SS STEL TD TLV	 Respiratory sensitization Skin sensitization Short term Exposure limit values Total dust Threshold Limit Value
R Z	 Respirable OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances 	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

Product name SIGMAZINC 105 BASE

Section 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/face protection	: Chemical splash goggles.
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	: 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

	Unite	ed States Page: 8/17
Evaporation rate	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Flammability (solid, gas)	Not available.	
Decomposition temperature	Not available.	
Auto-ignition temperature	Not available.	
Flash point	Closed cup: 21°C (69.8°F)	
Boiling point	>37.78°C (>100°F)	
Melting point	Not available.	
рН	Not applicable.	
Odor threshold	Not available.	
Odor	Characteristic.	
Color	Gray.	
Physical state	Liquid.	
<u>Appearance</u>		

Product name SIGMAZINC 105 BASE

Section 9. Physical and chemical properties

Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.98
Density(lbs / gal)	: 16.52
Solubility Partition coefficient: n- octanol/water	Insoluble in the following materials: cold water.Not applicable.
Viscosity Volatility % Solid. (w/w)	 Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) 50% (v/v), 21.04% (w/w) 78.96

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
parium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Epoxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
			United States	Page: 9/17

Product name SIGMAZINC 105 BASE

Section 11. Toxicological information

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bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
phonyiphopano				
	LD50 Oral	Rat	15000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Redness of the conjunctivae	Rabbit	0.4	mg 24 hours	-
	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

	Conc	lusion	/Summa	rv
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Skin : There are no data av	ailable on the mixture itself.
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Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.

Respiratory

Sensitization

•••••	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing

Conclusion/Summary						
Skin	There are	There are no data available on the mixture itself.				
Respiratory	There are	There are no data available on the mixture itself.				
<u>Mutagenicity</u>						
Conclusion/Summary	: There are no data available on the mixture itself.					
Carcinogenicity						
Conclusion/Summary	: There are no data available on the mixture itself.					
Classification						
Product/ingredient name	OSHA	IARC	NTP			
-methylpentan-2-one	-	2B	-			
ethylbenzene	-	2B	-			
xylene	- 3 -					
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-			
			•			

Carcinogen Classification code:

United States Page: 10/17

Product name SIGMAZINC 105 BASE

Section 11. Toxicological information

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. **Specific target organ toxicity (single exposure)**

Name	Category	Route of exposure	Target organs
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
Cement, portland, chemicals	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

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Target organs
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: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, upper respiratory tract, 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 Inhalation Skin contact	 Causes serious eye irritation. Harmful if inhaled. 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	: No specific data.

Product name SIGMAZINC 105 BASE

Section 11. Toxicological information

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Skin contact	:	Adverse symptoms m	nay include th	e following:			
		irritation redness					
		dryness					
		cracking					
Ingestion		No specific data.					
Delayed and immediate effect		-	ects from sho	ort and long	term exposu	ire	
Conclusion/Summary	:	There are no data av			-		solvent vapor
		concentrations in exc health effects such as effects on the kidneys headache, dizziness, loss of consciousness through the skin. The vapors in combination expected from exposi irritation and reversibi This takes into accou effects of component dermal routes of expo	ess of the sta s mucous me s, liver and ce fatigue, muso s. Solvents n ere is some e n with constar ure to noise a le damage. In nt, where kno s from short-t	ated occupation mbrane and reprint nervous cular weakness hay cause sore vidence that reprint loud noise of alone. If splass ingestion may pown, delayed a term and long	onal exposure respiratory sy system. Syr ss, drowsines ne of the abore capeated expo can cause gro shed in the ey cause nause and immedia	e limit may res stem irritation nptoms and s and, in extrove effects by osure to orga eater hearing ves, the liquid ea, diarrhea a te effects and	sult in adverse and adverse signs include eme cases, absorption nic solvent loss than may cause nd vomiting. also chronic
<u>Short term exposure</u>			-				
Potential immediate effects	:	There are no data ava	ailable on the	mixture itself	:		
Potential delayed effects		There are no data ava	ailable on the	mixture itself	:		
Long term exposure	-						
Potential immediate		There are no data ava	ailable on the	mixture itself	·		
effects							
Potential delayed effects	1	There are no data ava	ailable on the	mixture itself			
Potential chronic health eff	ect	<u>'S</u>					
General	:	May cause damage to repeated contact can Once sensitized, a se very low levels.	defat the skir	n and lead to	irritation, crac	cking and/or o	lermatitis.
Carcinogenicity	:	Suspected of causing exposure.	g cancer. Ris	k of cancer de	epends on du	iration and lev	vel of
Mutagenicity		No known significant	effects or crit	ical hazards.			
Reproductive toxicity		No known significant					
Numerical measures of toxic		0	2.10010 01 011				
Acute toxicity estimates	<u>, ity</u>						
Product/ingredient name			Oral (mg/	Dermal	Inhalation	Inhalation	Inhalation
			kg)	(mg/kg)	(gases) (ppm)	(vapors) (mg/l)	(dusts and mists) (mg/ I)
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Date of issue 12 March 2022 Version 2

Product name SIGMAZINC 105 BASE

Section 11. Toxicological information

SIGMAZINC 105 BASE	5006.7	3856	N/A	37.8	4.4	
barium sulfate	N/A	2500	N/A	N/A	N/A	
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5	
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td><td></td></mw<=1100)<>	2500	2500	N/A	N/A	N/A	
ethylbenzene	3500	17800	N/A	17.8	1.5	
xylene	4300	1700	N/A	11	1.5	
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A	
zinc oxide	N/A	2500	N/A	N/A	N/A	

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
✓methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
bis-[4-(2,3-epoxipropoxi)	Acute LC50 1.8 mg/I Fresh water	Daphnia - daphnia magna	48 hours
phenyl]propane			
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
✓-methylpentan-2-one ethylbenzene	OECD 301F -	83 % - Readily - 28 days 79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
 methylpentan-2-one ethylbenzene xylene bis-[4-(2,3-epoxipropoxi) phenyl]propane 	- · · · · · · · · · · · · · · · · · · ·		- - -		Readily Readily Readily Not readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓-methylpentan-2-one	1.9	-	low
ethylbenzene	3.6	79.43	low
xylene	3.12	7.4 to 18.5	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

United States Page: 13/17

Product name SIGMAZINC 105 BASE

Section 12. Ecological information

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 non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
	with soil, water ways, 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

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	П	11	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized), bis-[4- (2,3-epoxipropoxi)phenyl] propane)	Not applicable.
Product RQ (lbs)	2329.1	Not applicable.	Not applicable.
RQ substances	(xylene, Zinc powder - zinc dust (stabilized))	Not applicable.	Not applicable.

14. Transport information

Additional info	rmation
DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.

Product name SIGMAZINC 105 BASE

14. Transport information

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : All components are active or exempted.

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	: 🗾 FLAMMABLE LIQUIDS - Category 2
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
# -methylpentan-2-one	≥5.0 - ≤11	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant
Propane, 1-(ethenyloxy) -2-methyl-, polymer with chloroethene	≥5.0 - ≤10	COMBUSTIBLE DUSTS EYE IRRITATION - Category 2A
Epoxy Resin (700 <mw<=1100)< td=""><td>≥1.0 - ≤5.5</td><td>COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B</td></mw<=1100)<>	≥1.0 - ≤5.5	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
ethylbenzene	≥1.0 - ≤4.8	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		United States Page: 15/17

Product name SIGMAZINC 105 BASE

Section 15. Regulatory information

		-
	EXPOSURE) - Category 2	
	ASPIRATION HAZARD - Category 1	
	HNOC - Defatting irritant	
≥1.0 - ≤4.2	0	
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
	(Respiratory tract irritation) - Category 3	
	ASPIRATIÓN HAZARD - Category 1	
≥1.0 - <3.0	SKIN IRRITATION - Category 2	
	SERIOUS EYE DAMAGE - Category 1	
	SKIN SENSITIZATION - Category 1B	
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
	(Respiratory tract irritation) - Category 3	
≥1.0 - ≤5.0	SKIN IRRITATION - Category 2	
	EYE IRRITATION - Category 2A	
	SKIN SENSITIZATION - Category 1B	
	≥1.0 - <3.0	 ≥1.0 - ≤4.2 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 ≥1.0 - <3.0 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ≥1.0 - ≤5.0 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2

<u>SARA 313</u>

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: Zínc powder - zinc dust (stabilized)	7440-66-6	15 - 40
	4-methylpentan-2-one	108-10-1	7 - 13
	ethylbenzene	100-41-4	1 - 5
	xylene	1330-20-7	1 - 5
	zinc oxide	1314-13-2	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Section 16. Other information

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

Health : 2 * Flammability : 3 Physical hazards : 1

(*) - 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.

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.)

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Health:2Flammability:3Instability:1Date of previous issue:7/19/2021
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Product name SIGMAZINC 105 BASE

Section 16. Other information

Organization that prepared the SDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals 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.

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.