# **SAFETY DATA SHEET**



Date of issue/Date of revision 6 April 2023 Version 18

Section 1. Identification		
Product name	: 1K ORGANIC ZINC RICH PRIMER -GRAY	
Product code	: ZNP-101	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place, Pittsburgh, PA 15272	
<u>Emergency telephone</u> 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	: (740) 363-9610 (DELAWARE, OH) 8:00 a.m 5:00 p.m. EST	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 70.7% (oral), 70.7% (dermal), 12% (inhalation)</li> </ul>
CHS label elements	

**GHS label elements** 

# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statement	<u>s</u>
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. 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 container tightly closed. 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 Product name : Mixture

: 1K ORGANIC ZINC RICH PRIMER -GRAY

Ingredient name	%	CAS number
Epoxy Resin (MW<=700)	≥10 - ≤20	25036-25-3
toluene	≥5.0 - ≤10	108-88-3
butanone	≥5.0 - ≤9.8	78-93-3
4-hydroxy-4-methylpentan-2-one	≥1.0 - ≤5.0	123-42-2
acetone	≥1.0 - ≤5.0	67-64-1
zinc oxide	≥1.0 - ≤5.0	1314-13-2
ethylbenzene	<1.0	100-41-4

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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>
Evo contact	· Causes serious ave irritation

Lye contact	· Causes senious eye initiation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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## Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following:
	nausea or vomiting
	headache
	drowsiness/fatigue
	dizziness/vertigo
	unconsciousness
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
	dryness
	cracking
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
Jonet	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	. No action shall be taken involving any personal risk or without suitable training. If it is
	suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

## 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.
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 metal oxide/oxides

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## Section 5. Fire-fighting measures

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	tive equipment and emergency procedures	
For non-emergency personnel For emergency responders	<ul> <li>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.</li> <li>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-</li> </ul>	
	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	ontainment 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	

# 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. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 United States Page: 5/17

information and Section 13 for waste disposal.

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# Section 7. Handling and storage

	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	: Do not store above the following temperature: 50°C (122°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.	

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
₽poxy Resin (MW<=700)	None.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 1/2022).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
butanone	ACGIH TLV (United States, 1/2022).
	STEL: 885 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 590 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 590 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
4-hydroxy-4-methylpentan-2-one	ACGIH TLV (United States, 1/2022).
	TWA: 238 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 240 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
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# Section 8. Exposure controls/personal protection

acetone		ACGIH TLV (United States, 1/2022).
		STEL: 500 ppm 15 minutes.
		TWA: 250 ppm 8 hours. OSHA PEL (United States, 5/2018).
		TWA: 2400 mg/m <sup>3</sup> 8 hours.
		TWA: 1000 ppm 8 hours.
zinc oxide		OSHA PEL (United States, 5/2018).
		TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
		TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
		fraction
		TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
		ACGIH TLV (United States, 1/2022).
		STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:
		Respirable fraction
		TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
		fraction
ethylbenzene		ACGIH TLV (United States, 1/2022).
		Ototoxicant.
		TWA: 20 ppm 8 hours.
		OSHA PEL (United States, 5/2018).
		TWA: 435 mg/m <sup>3</sup> 8 hours.
		TWA: 100 ppm 8 hours.
	Key to abbreviations	
A = Acceptable Maximum Pe ACGIH = American Conference o	eak f Governmental Industrial Hygienists.	S = Potential skin absorption SR = Respiratory sensitization
C = Ceiling Limit	Governmentar industrial riggienists.	SS = Skin sensitization
F = Fume		STEL = Short term Exposure limit values
IPEL = Internal Permissible Exp		TD = Total dust
OSHA = Occupational Safety and R = Respirable	Health Administration.	TLV = Threshold Limit Value TWA = Time Weighted Average
•	00 Subpart Z - Toxic and Hazardous Substances	TWA - Time Weighted Average
	acceptable exposure limits.	
Recommended monitoring	<u> </u>	ate monitoring standards. Reference to national
procedures		he determination of hazardous substances will
ppropriate engineering	: Use only with adequate ventilation. Us	e process enclosures, local exhaust ventilation or
ontrols		ker exposure to airborne contaminants below any
		engineering controls also need to keep gas,
		y lower explosive limits. Use explosion-proof
	ventilation equipment.	
nvironmental exposure	: Emissions from ventilation or work proc	cess equipment should be checked to ensure
	•	
-		nvironmental protection legislation. In some
ontrols	cases, fume scrubbers, filters or engine	eering modifications to the process equipment
		eering modifications to the process equipment

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

# Section 9. Physical and chemical properties

Evaporation rate	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Flammability	: Not available.
Decomposition temperature	: Not available.
Auto-ignition temperature	: Not available.
Flash point	: Closed cup: 20°C (68°F)
Boiling point	: 38°C (100.4°F)
Melting point	: Not available.
рН	: Not applicable.
Odor threshold	: Not available.
Odor	: Not available.
Color	: White.
Physical state	: Liquid.
<u>Appearance</u>	

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# Section 9. Physical and chemical properties

Vapor pressure	: Not available.		
Vapor density	: Not available.		
Relative density	: 2.01		
Density(Ibs / gal)	: 16.77		
	Media	Result	
Solubility(ies)	cold water	Not soluble	
Partition coefficient: n- octanol/water	: Not applicable.		
Viscosity	: Kinematic (40°C (10	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	
Volatility	: 69% (v/v), 29.005%	: 69% (v/v), 29.005% (w/w)	
% Solid. (w/w)	: 70.995		

# 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 metal oxide/oxides

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
4-hydroxy-4-methylpentan-	LD50 Dermal	Rabbit	13500 mg/kg	-
2-one			00	
	LD50 Oral	Rat	3002 mg/kg	-
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
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# Section 11. Toxicological information

zinc oxide		lation Dusts	s and mists	Rat Rat	5800 mg/kg >5700 mg/m³	- 4 hours
	LD50 Der			Rat	>2000 mg/kg	-
ethylbenzene	LD50 Ora	lation Vapo	r	Rat Rat	>5000 mg/kg 17.8 mg/l	- 4 hours
GUIYIDGHZGHG	LD50 Der		1	Rabbit	17.8 g/kg	-
	LD50 Ora			Rat	3.5 g/kg	-
Conclusion/Summary	: There ar	e no data av	vailable on tl	he mixture itse		
Irritation/Corrosion						
Conclusion/Summary						
Skin	: There ar	e no data av	vailable on tl	he mixture itse	lf.	
Eyes	: There ar	e no data av	vailable on tl	he mixture itsel	lf.	
Respiratory	: There ar	e no data av	vailable on tl	he mixture itsel	lf.	
<u>Sensitization</u>						
Conclusion/Summary						
Skin	: There ar	e no data av	vailable on tl	he mixture itse	lf.	
Respiratory	: There ar	e no data av	vailable on tl	he mixture itsel	lf.	
Mutagenicity						
Conclusion/Summary	: There ar	e no data av	vailable on tl	he mixture itsel	lf.	
Carcinogenicity						
Conclusion/Summary	: There ar	e no data av	vailable on tl	he mixture itsel	lf.	
<u>Classification</u>						
Product/ingredient name	OSHA	IARC	NTP			
toluene	-	3	-			
ethylbenzene	-	2B	-			
Carcinogen Classification	n code:		•			
IARC: 1, 2A, 2B, 3 NTP: Known to b OSHA: + Not listed/not reg	e a human car	cinogen; Reas	sonably anticip	pated to be a hum	an carcinogen	
Reproductive toxicity						
Conclusion/Summary	: There are	e no data av	ailable on th	ne mixture itself		
<u>Feratogenicity</u>						
	• There are	e no data av	ailable on th	ne mixture itself		
Conclusion/Summarv						
Conclusion/Summary Specific target organ toxicity		<u>oosure)</u>				
Specific target organ toxicity		<u>oosure)</u>	Cat	egory	Route of exposure	Target organs
Specific target organ toxicity Name		<u>oosure)</u>		•		Target organs
Specific target organ toxicity Name toluene		<u>oosure)</u>	Cate	<b>egory</b> egory 3 egory 3		
Conclusion/Summary Specific target organ toxicity Name toluene butanone 4-hydroxy-4-methylpentan-2-c	<u>y (single ex</u>	<u>oosure)</u>	Cate	egory 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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## Section 11. Toxicological information

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

#### Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, the reproductive system, liver, heart, peripheral nervous system, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

Name	Result
toluene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

Potential acute health	<u>i effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
<u>Over-exposure signs</u>	'symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering
Inhalation	<ul><li>redness</li><li>Adverse symptoms may include the following: nausea or vomiting</li></ul>
	headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion elayed and immediat	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations e effects and also chronic effects from short and long term exposure
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# Section 11. Toxicological information

Conclusion/Summary	There are no data available on the mixture itself. 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.
Short term exposure	
Potential immediate effects	There are no data available on the mixture itself.
Potential delayed effects	There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	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>2</u>
General	May cause 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	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	No known significant effects or critical hazards.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
K ORGANIC ZINC RICH PRIMER -GRAY	7179.3	39293.0	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A
butanone	2737	6480	N/A	N/A	N/A
4-hydroxy-4-methylpentan-2-one	3002	13500	N/A	N/A	N/A
acetone	5800	15800	N/A	76	N/A
zinc oxide	N/A	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Epoxy Resin (MW<=700)	Acute LC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-hydroxy-4-methylpentan-	Acute LC50 >100 mg/l	Fish	96 hours
2-one	-		
acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa -	48 hours
		Copepodid	
	Acute LC50 5540 mg/l	Fish	96 hours
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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

#### Persistence and degradability

Product/ingredient name	Test	Test Result		Dose		Inoculum
4-hydroxy-4-methylpentan- 2-one acetone	OECD 301A	98.5 % - Readily - 28 days		-		-
ethylbenzene	-	90.9 % - Readily - 28 days 79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Epoxy Resin (MW<=700) toluene 4-hydroxy-4-methylpentan- 2-one		-				dily
acetone ethylbenzene	-		-		Readily Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	8.32	low
butanone	0.3	-	low
4-hydroxy-4-methylpentan- 2-one	-0.14 to 1.03	-	low
acetone	-0.23	3 79 43	low
ethylbenzene	3.6	79.43	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

United States Page: 13/17

## 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.

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

14. Transport	information
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	DOT	IMDG	IATA			
UN number	UN1263	UN1263	UN1263			
UN proper shipping name	PAINT	PAINT	PAINT			
Transport hazard class (es)	3	3	3			
Packing group	П	II	11			
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.			
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized), Epoxy Resin (MW <=700))	Not applicable.			
Product RQ (lbs)	1656.6	Not applicable.	Not applicable.			
RQ substances	(Zinc powder - zinc dust (stabilized), toluene)	Not applicable.	Not applicable.			

#### **Additional information**

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

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Annual notification

Product name 1K ORGANIC ZINC RICH PRIMER -GRAY

## 14. Transport information

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.

#### U.S. Federal regulations

#### United States - TSCA 12(b) - Chemical export notification: Zinc powder - zinc dust (stabilized)

SARA 302/304

SARA 304 RQ : Not applicable.

#### **Composition/information on ingredients**

No products were found.

#### SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
Epoxy Resin (MW<=700)	≥10 - ≤20	COMBUSTIBLE DUSTS
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
toluene	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2
		SKIN IRRITATION - Category 2
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
butanone	≥5.0 - ≤9.8	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		United States Page: 15/17

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Product name 1K ORGANIC ZINC RICH PRIMER -GRAY							
Section 15. Regulator	ry informa	ation					
4-hydroxy-4-methylpentan-2-one	≥1.0 - ≤5.0	HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ELAMMABLE LIQUIDS - Category 2					
acetone ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSU (Narcotic effects) - Category 3 HNOC - Defatting irritant							
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant					

SARA 313

Supplier notification	<ul> <li><u>Chemical name</u></li> <li>Zinc powder - zinc dust (stabilized) toluene zinc oxide ethylbenzene</li> </ul>	CAS number 7440-66-6 108-88-3 1314-13-2 100-41-4	<u>Concentration</u> 40 - 70 5 - 10 1 - 5 0.1 - 1
	Citybenzene	100 41 4	0.1 1

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.)										
Health	:	2	Flammat	oili	ty	:	3	Instability	1	1
Date of previous issue : 11/15/2022										
Organization that prepared : EHS the SDS										

Date of issue 6 April 2023

Product name 1K ORGANIC ZINC RICH PRIMER -GRAY

## Section 16. Other information

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 = Intermediate 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
<b>—</b> • • • • • • • •	

#### 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.