SAFETY DATA SHEET



Date of issue/Date of revision10 September 2016Version 6

Section 1. Identification	
Product name	: KOLOR SIL LIGHT GREEN ENAMEL
Product code	: KLF15001
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
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)
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 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), kidneys and liver) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 46.9%

GHS label elements

Product code KLF15001 Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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 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. 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. 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. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product name

: KOLOR SIL LIGHT GREEN ENAMEL

Ingredient name	%	CAS number
Manium dioxide	≥20 - ≤50	13463-67-7
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤10	64742-95-6
1,2,4-trimethylbenzene	≥5.0 - ≤8.0	95-63-6
trimethylbenzene	≥5.0 - ≤10	25551-13-7
crystalline silica, respirable powder (<10 microns)	≥1.0 - ≤5.0	14808-60-7
xylene	≤1.3	1330-20-7
Stoddard solvent	≥1.0 - ≤5.0	8052-41-3
cumene	<1.0	98-82-8
2-ethylhexanoic acid, zirconium salt	≤1.0	22464-99-9
2-butanone oxime	<1.0	96-29-7

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 sympto	oms/effects, acute and delayed
Potential acute health	<u>effects</u>
Eve contact	· Causes serious eve irritation

Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symptoms		

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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	: 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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, 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

information and Section 13 for waste disposal.

licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 7. Handling and storage

Precautions for safe handling

Protective measures		Put on appropriate personal protective equipment (see Section 8). 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 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. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. 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: 35°C (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. 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

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
titanium dioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2015).
	TWA: 10 mg/m ³ 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2015).
	TWA: 123 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
trimethylbenzene	ACGIH TLV (United States, 3/2015).
	TWA: 123 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	OSHA PEL Z3 (United States, 2/2013).
	TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form:
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
	Respirable
	ACGIH TLV (United States, 3/2015).
	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
	OSHA PEL Z3 (United States).
	TWA: 30 mg/m ³ Form: Total dust
xylene	ACGIH TLV (United States, 3/2015).
Aylene	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Stoddard solvent	ACGIH TLV (United States, 3/2015).
	TWA: 525 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2900 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
cumene	ACGIH TLV (United States, 3/2015).
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	Absorbed through skin.
	TWA: 245 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-ethylhexanoic acid, zirconium salt	ACGIH TLV (United States, 3/2015).
2-Giryingkanolo adiu, ziroonium sait	STEL: 10 mg/m ³ , (as Zr) 15 minutes.
	TWA: 5 mg/m ³ , (as Zr) 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m ³ , (as Zr) 8 hours.
2-butanone oxime	IPEL (PPG).
	TWA: 3 ppm
	STEL: 9 ppm

United States Page: 7/16

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 8. Exposure controls/personal protection

C = Ceiling Limit F = Fume IPEL = Internal Permissible Exp OSHA = Occupational Safety and R = Respirable	f Governmental Industrial Hygienists. osure Limit I Health Administration. 00 Subpart Z - Toxic and Hazardous Substances	SR = R SS = S STEL = S TD = T TLV = T	Potential skin absorption Respiratory sensitization Skin sensitization Short term Exposure limit Total dust Threshold Limit Value Time Weighted Average	values
				_
Recommended monitoring procedures	: If this product contains ingredients atmosphere or biological monitoring the ventilation or other control meas protective equipment. Reference s Reference to national guidance doo hazardous substances will also be	g may be require sures and/or the hould be made t suments for metl	ed to determine the e necessity to use re to appropriate monit	effectiveness of spiratory oring standards.
Appropriate engineering controls Environmental exposure controls	 Use only with adequate ventilation. other engineering controls to keep recommended or statutory limits. T vapor or dust concentrations below ventilation equipment. Emissions from ventilation or work they comply with the requirements of cases, fume scrubbers, filters or en will be necessary to reduce emission 	worker exposure he engineering any lower explo process equipm of environmenta gineering modifi	e to airborne contam controls also need t sive limits. Use exp ent should be check I protection legislation ications to the proce	inants below any o keep gas, blosion-proof and to ensure on. In some
Individual protection measu	<u>es</u>			
Hygiene measures Eye/face protection	 Wash hands, forearms and face the eating, smoking and using the laval Appropriate techniques should be used wash contaminated clothing before showers are close to the workstation Chemical splash goggles. 	ory and at the e sed to remove p reusing. Ensur	nd of the working per potentially contamina	eriod. ated clothing.
<u>Skin protection</u> Hand protection Gloves	 Chemical-resistant, impervious glov worn at all times when handling che necessary. Considering the param during use that the gloves are still r noted that the time to breakthrough glove manufacturers. In the case of protection time of the gloves canno For prolonged or repeated handling 	emical products eters specified b etaining their pro- for any glove m f mixtures, cons t be accurately e	if a risk assessment by the glove manufa- btective properties. aterial may be differ isting of several sub estimated.	indicates this is cturer, check It should be rent for different
	Recommended: polyvinyl alcohol (F May be used: nitrile rubber			
Body protection	: Personal protective equipment for t performed and the risks involved ar handling this product. When there static protective clothing. For the g should include anti-static overalls, b	nd should be app is a risk of ignition reatest protection	proved by a specialis on from static electri n from static discha	st before city, wear anti-
			United States	Page: 8/16

United States

Page: 9/16

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 8. Exposure controls/personal protection

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.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: 1	Liquid.
Color	: 1	Not available.
Odor	: 1	Not available.
Odor threshold	: 1	Not available.
рН	1	Not available.
Melting point	:	Not available.
Boiling point	: :	>37.78°C (>100°F)
Flash point	: (Closed cup: 40.56°C (105°F)
Auto-ignition temperature	: 1	Not available.
Decomposition temperature	: 1	Not available.
Flammability (solid, gas)	: 1	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 0.9%
Evaporation rate	: (0.28 (butyl acetate = 1)
Vapor pressure	: (0.45 kPa (3.4 mm Hg) [room temperature]
Vapor density	: 1	Not available.
Relative density	:	1.28
Density(lbs / gal)	:	10.68
Solubility	: 1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	:	Not available.
Viscosity	: 1	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	: :	38% (v/v), 25.76% (w/w)
% Solid. (w/w)	:	74.24

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.

Date of issue 10 September 2016Version 6

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 10. Stability and reactivity

Section 11. Toxico	olo	ogical information
Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
0	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	1400 mg/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
2-butanone oxime	LD50 Oral	Rat	930 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitization	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.

Date of issue 10 September 2016Version 6

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 11. Toxicological information

Section 11. Toxicol	ogical	inforr	nation	
Respiratory	: There ar	e no data	available on the mixture itself.	
Mutagenicity				
Conclusion/Summary	: There ar	e no data	available on the mixture itself.	
Carcinogenicity				
Conclusion/Summary	: There ar	e no data	available on the mixture itself.	
Classification				
Product/ingredient name	OSHA	IARC	NTP	
titanium dioxide	-	2B	-	
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a human carcinogen.	
xylene	-	3	-	
cumene	-	2B	Reasonably anticipated to be a human carcine	ogen.
Carcinogen Classification	code:			
Not listed/not regularized Not listed/Not listed/Not listed/Not listed/not regularized Not listed/not		e no data a	available on the mixture itself.	
Teratogenicity				
Conclusion/Summary :	There are	e no data a	available on the mixture itself.	
Specific target organ toxicity	<u>(single exr</u>	<u>posure)</u>		
Name				Category
Solvent naphtha (petroleum), lig 1,2,4-trimethylbenzene xylene cumene	jht aromati	с		Category 3 Category 3 Category 3 Category 3
Specific target organ toxicity	(repeated (exposure	<u>ل</u>	·
Name				Category
crystalline silica, respirable pow	/der (<10 m	icrons)		Category 1
xylene				Category 2
Stoddard solvent				Category 1

cumene

Target organs

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

bone marrow, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, gastrointestinal tract, upper respiratory tract, skin, eye, lens or cornea, testes.

Aspiration hazard

Category 2

United States

Page: 12/16

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 11. Toxicological information

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Stoddard solvent	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

······,	
Potential acute health eff	iects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/syn	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate eff	fects and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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	

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 11. Toxicological information

Potential immediate effects	:	There are no data available on the mixte	ure itself.	
Potential delayed effects	1	There are no data available on the mixte	ure itself.	
<u>Long term exposure</u>				
Potential immediate effects	:	There are no data available on the mixt	ure itself.	
Potential delayed effects	1	There are no data available on the mixte	ure itself.	
Potential chronic health effe	ects			
General	:		onged or repeated exposure. Prolonged or lead to irritation, cracking and/or dermatitis.	
Carcinogenicity	1	May cause cancer. Risk of cancer depends on duration and level of exposure.		
Mutagenicity	1	No known significant effects or critical hazards.		
Teratogenicity	1	Suspected of damaging the unborn child.		
Developmental effects	1	No known significant effects or critical hazards.		
Fertility effects	1	Suspected of damaging fertility.		
Numerical measures of toxic	:ity			
Acute toxicity estimates				
Route			ATE value	
Øral			4349.8 mg/kg	
Dermal			6197.1 mg/kg	
Inhalation (gases)			297673.2 ppm	
Inhalation (vapors)			105.4 mg/l	

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
7,2,4-trimethylbenzene	3.63	120.23	low
trimethylbenzene	3.4 to 3.8	-	low
xylene	3.16	7.4 to 18.5	low
Stoddard solvent	3.16 to 7.06	-	high
cumene	3.66	35.48	low
2-butanone oxime	0.63	5.01	low

Un	nited States	Page: 13/16

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 12. Ecological information

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	Ш	III	
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	8398.8	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

Additional information DOT : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as

hazardous materials in package sizes less than the product reportable quantity. : None identified. IMDG

ΙΑΤΑ : None identified.

11 Transport information

United States Page: 14/16

Date of issue 10 September 2016Version 6

Product name KOLOR SIL LIGHT GREEN ENAMEL

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.

Section 15. Regulatory information

2

United States

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

U.S. Federal regulations

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

: Fire hazard Immediate (acute) health hazard

Delayed (chronic) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
titanium dioxide	No.	No.	No.	No.	Yes.
Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.
1,2,4-trimethylbenzene	Yes.	No.	No.	Yes.	No.
trimethylbenzene	Yes.	No.	No.	Yes.	No.
crystalline silica, respirable powder (<10 microns)	No.	No.	No.	No.	Yes.
xylene	Yes.	No.	No.	Yes.	Yes.
Stoddard solvent	Yes.	No.	No.	Yes.	Yes.
cumene	Yes.	No.	No.	Yes.	Yes.
2-ethylhexanoic acid, zirconium salt	Yes.	No.	No.	No.	Yes.
2-butanone oxime	Yes.	No.	No.	Yes.	Yes.

<u>SARA 313</u>

Sunn	lior	notification	
Supp	nei	nouncation	

	Chemical name
÷	1,2,4-trimethylbenzene
	xylene

 CAS number
 Concentration

 95-63-6
 5 - 10

 1330-20-7
 0.5 - 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

Product name KOLOR SIL LIGHT GREEN ENAMEL

Section 15. Regulatory information

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16. Other information

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

Health : 2 * Flammability : 2 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Asso	ociation (U.S.A.)
Health : 2 Flamma	bility : 2 Instability : 0
Date of previous issue	: 4/25/2016
Organization that prepared the MSDS	: 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) 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.