SAFETY DATA SHEET



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

Date of revision 17 July 2019

Version 4

Date of issue 17 July 2019

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

Product name	: EPOXY OLIVE DRAB PRIMER
Product code	: KL3200DA77
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Industrial applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 or + 52 55 5559 1588 (Mexico)
Technical Phone Number	: 888-977-4762

SECTION 2: Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity:
	61.1% (Oral), 67.4% (Dermal), 82.4% (Inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger
-	-

Product name EPOXY OLIVE DRAB PRIMER

SECTION 2: Hazards identification

Hazard statements	:	 H226 - Flammable liquid and vapor. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statements		
Prevention	:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	:	₱314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Sanding and grinding dusts may be harmful if inhaled. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Emits toxic fumes when heated.

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: EPOXY OLIVE DRAB PRIMER
Other means of identification	: Not applicable.

Product name EPOXY OLIVE DRAB PRIMER

SECTION 3: Composition/information on ingredients

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Ingredient name	%	CAS number
vystalline silica, respirable powder (<10 microns)	≥20 - ≤50	14808-60-7
Talc , not containing asbestiform fibres	≥10 - ≤17	14807-96-6
Epoxy resin (MW \leq 700)	≥10 - ≤12	25068-38-6
1-methoxy-2-propanol	≥5.0 - ≤10	107-98-2
n-butyl acetate	≥5.0 - ≤9.0	123-86-4
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	≥1.0 - ≤5.0	68609-97-2
xylene	≤1.7	1330-20-7
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

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	: No known significant effects or critical hazards.
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

See toxicological information (Section 11)

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

Notes to physician Specific treatments	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.

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SECTION 5: Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

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

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

Precautions	for s	safe I	handl	ina

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	:	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
vystalline silica, respirable powder (<10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable
Talc , not containing asbestiform fibres	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 2 mg/m ³ 15 minutes. Form: Respirable
Epoxy resin (MW ≤ 700)	None.
1-methoxy-2-propanol	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
n-butyl acetate	NOM-010-STPS-2014 (Mexico, 4/2016).
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SECTION 8: Expos	ure controls/perso	onal protection		
titanium dioxide		STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 10 mg/m ³ 8 hours.		
oxirane, mono[(C12-14-alkylo: xylene ethylbenzene	xy)methyl] derivs.	None. NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016).		
		TWA: 20 ppm 8 hours.		
	Key to abbreviations			
C = Ceiling Limit IPEL = Internal Permissible Expo	-	STEL = Short term exposure limit TLV = Threshold Limit Value TWA = Time Weighted Average		
Consult local authorities for	acceptable exposure limits.			
Recommended monitoring procedures	atmosphere or biological m of the ventilation or other co protective equipment. Refe standards. Reference to na	edients with exposure limits, personal, workplace nonitoring may be required to determine the effectiveness ontrol measures and/or the necessity to use respiratory erence should be made to appropriate monitoring ational guidance documents for methods for the s substances will also be required.		
Appropriate engineering controls	ventilation or other enginee contaminants below any red	ntilation. Use process enclosures, local exhaust ering controls to keep worker exposure to airborne commended or statutory limits. The engineering controls or or dust concentrations below any lower explosive f ventilation equipment.		
Environmental exposure controls	they comply with the require cases, fume scrubbers, filte	or work process equipment should be checked to ensure ements of environmental protection legislation. In some ers or engineering modifications to the process ry to reduce emissions to acceptable levels.		
Individual protection measur	es			
Hygiene measures	: Wash hands, forearms and eating, smoking and using the Appropriate techniques sho Contaminated work clothing	I face thoroughly after handling chemical products, befor the lavatory and at the end of the working period. build be used to remove potentially contaminated clothing g should not be allowed out of the workplace. Wash re reusing. Ensure that eyewash stations and safety orkstation location.		
Eye/face protection	: Chemical splash goggles.			
Skin protection				
Hand protection	be worn at all times when h this is necessary. Consider check during use that the g should be noted that the tim different for different glove	ious gloves complying with an approved standard should nandling chemical products if a risk assessment indicates ring the parameters specified by the glove manufacturer ploves are still retaining their protective properties. It ne to breakthrough for any glove material may be manufacturers. In the case of mixtures, consisting of otection time of the gloves cannot be accurately		
Classes				

Gloves

: butyl rubber

Product name EPOXY OLIVE DRAB PRIMER

SECTION 8: Exposure controls/personal protection

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.

SECTION 9: Physical and chemical properties

Physical state Color: Liquid. Not available.Odor: Not available.Odor: Characteristic.Odor threshold: Not available.Molecular weight: Not available.pH: Not available.Melting point: Not available.Boiling point: Not available.Boiling point: S7.78°C (>100°F)Flash point: Closed cup: 25.56°C (78°F)Auto-ignition temperature Flammability (solid, gas): Not available.Decomposition temperature flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Not available.Evapor pressure: 0.8 (butyl acetate = 1)Vapor density: 1.76Density (lbs / gal): 14.69Solubility in water: 7.9 g/lPartition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 33% (v/v), 16.683% (w/w)% Solid. (w/w): 83.317	<u>Appearance</u>		
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Volatility : 33% (v/v), 16.683% (w/w)		: Not available.	
	Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)	
% Solid. (w/w) : 83.317	Volatility	: 33% (v/v), 16.683% (w/w)	
	% Solid. (w/w)	: 83.317	

Date of issue 17 July 2019

Product name EPOXY OLIVE DRAB PRIMER

SECTION 10: Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
oxirane, mono[LD50 Oral	Rat	17100 mg/kg	-
(C12-14-alkyloxy)methyl]				
derivs.				
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Epoxy resin (MW ≤ 700)	Skin - Mild irritant Eyes - Mild irritant	Rabbit Rabbit	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					

Skin

: There are no data available on the mixture itself.

Product name EPOXY OLIVE DRAB PRIMER

SECTION 11: Toxicological information

Eyes	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
Sensitization				
Product/ingredient name	Route of exposure	S	pecies	Result
Epoxy resin (MW ≤ 700)	skin	N	louse	Sensitizing
Conclusion/Summary	1	I		
Skin	: There a	re no data	a available on the n	nixture itself.
Respiratory	: There a	re no data	a available on the n	nixture itself.
<u>Mutagenicity</u>				
Conclusion/Summary	: There a	re no data	a available on the n	nixture itself.
Carcinogenicity				
Conclusion/Summary	: There a	re no data	a available on the n	nixture itself.
Classification				
Product/ingredient name	OSHA	IARC	NTP	
rystalline silica, respirable	-	1	Known to be a h	uman carcinogen.

Product/ingredient name	OSHA	IARC	NTP
prystalline silica, respirable powder (<10 microns)	-	1	Known to be a human carcinogen.
titanium dioxide	-	2B	-
xylene ethylbenzene	-	3 2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	Not applicable.	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
xylene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns) ethylbenzene	5		Not determined hearing organs

Product name EPOXY OLIVE DRAB PRIMER

SECTION 11: Toxicological information

Target organs	bone marrow. Contains material which may c the nervous system, heart, care	s damage to the following organs: liver, spleen, brain, ause damage to the following organs: kidneys, lungs, diovascular system, upper respiratory tract, immune system (CNS), eye, lens or cornea.
Aspiration hazard		
Name		Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on the likely ro	utes of exposure	
Potential acute health effect	<u>ets</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects o	
Skin contact	: Causes skin irritation. Defattir	ng to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects o	r critical hazards.
Over-exposure signs/symp	otoms	
Eye contact	: Adverse symptoms may includ pain or irritation watering redness	le the following:
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may incluc irritation redness dryness cracking	le the following:
Ingestion	: No specific data.	
Delayed and immediate eff	ects and also chronic effects from	<u>short and long term exposure</u>
Conclusion/Summary	silica which can cause lung car duration and level of exposure applications. For many PPG p coating formulation. In this cas meaningful potential for human product is applied with a brush spray applications may be harr and require the use of appropri controls (see Section 8). Expo excess of the stated occupation such as mucous membrane an the kidneys, liver and central no headache, dizziness, fatigue, n cases, loss of consciousness. absorption through the skin. T organic solvent vapors in comb hearing loss than expected from the liquid may cause irritation a diarrhea and vomiting. This tal immediate effects and also chr	the mixture itself. This product contains crystalline neer or silicosis. The risk of cancer depends on the to dust from sanding surfaces or mist from spray roducts, TiO2 is utilized as a raw material in a liquid se, the TiO2 particles are bound in a matrix with no a exposure to unbound particles of TiO2 when the or roller. Sanding the coating surface or mist from nful depending on the duration and level of exposure ate personal protective equipment and/or engineering sure to component solvent vapor concentrations in nal exposure limit may result in adverse health effects ad respiratory system irritation and adverse effects on ervous system. Symptoms and signs include nuscular weakness, drowsiness and, in extreme Solvents may cause some of the above effects by here is some evidence that repeated exposure to bination with constant loud noise can cause greater m exposure to noise alone. If splashed in the eyes, and reversible damage. Ingestion may cause nausea, kes into account, where known, delayed and onic effects of components from short-term and long- on and dermal routes of exposure and eye contact.

Product name EPOXY OLIVE DRAB PRIMER

SECTION 11: Toxicological information

<u>Short term exposure</u>		
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>ects</u>	
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical measures of toxic	<u>city</u>	
Acute toxicity estimates		

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
POXY OLIVE DRAB PRIMER	8307.7	5672.6	N/A	124	16.9
Epoxy resin (MW \leq 700)	2500	2500	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	N/A	N/A	N/A	N/A
xylene	4300	1100	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5

SECTION 12: Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Epoxy resin (MW \leq 700)	OECD 301F	5 % - 28 days	-	-

Product name EPOXY OLIVE DRAB PRIMER

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Epoxy resin (MW ≤ 700)	-	-	Not readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
n-butyl acetate	1.78	-	low
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

SECTION 14: Transport information

UN proper shipping namePAINTPAINTPAINTTransport333		Mexico Classification	IMDG	ΙΑΤΑ
shipping name33Transport33	UN number	UN1263	UN1263	UN1263
Transport hazard class(es)333		PAINT	PAINT	PAINT
		3	3	3
Packing group III III III	Packing group	III	III	

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SECTION 14: Transport information

Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs) RQ substances	Not applicable. Not applicable.	Not applicable. Not applicable.	Not applicable. Not applicable.

Additional information

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

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

SECTION 15: Regulatory information

<u>Mexico</u>

Classification

Flammability : 3 Health : 2 Reactivity : 0

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

SECTION 16: Other information

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

Health	1	2	*	Flammability	1	3	Physical hazards	1	0
(*)- Ch effects	nroi	nic					-		
O		•••							

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

Date of previous issue	: 12/22/2018
Organization that prepared the MSDS	: EHS

Product name EPOXY OLIVE DRAB PRIMER

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
Indicatos informatios	a that has shanned from providually issued version

✓ Indicates information that has changed from previously issued version.

Notice to reader

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

Disclaimer

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