SAFETY DATA SHEET



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

Date of revision 4 July 2021

Version 7

Date of issue 4 July 2021

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

Product name	: K&L KEELOCK HI-SOLIDS EPOXY BLACK
Product code	: KL96000177/01
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) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

SECTION 2: Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 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: 20 5% (inhelation) 20 2% (inhelation) 20 2% (inhelation) 20 2% (inhelation) 21 2% 22 5% 23 2% 24 3% 25 2% 26 5% 27 3% 28 3% 29 3% 29 3% 29 3% 29 3% 29 3% 29 3% 29 3% 20 3% 20 3% 20 5% 20 3% 21 3% 22 3% 22 3% 23 3% 24 3% 25 3% 26 5% 27 3% 28 3% 29 3% 29 3% 29 3% 29 3% 29 3% 29 3% 29 3% 20 3% 20 3% 20 3% 20 3% 20 3% 20 3% 20 3% 20 3% 20 3% 20 3% 20 3% 20 3% 21 3% 21 3% 22 3% 22 3% 23 3% 24 3% 24 3% 25 3% 26 3% 27 3% 28 3% 28 3% 28 3% 29 3% 29 3% 29 3% 29 3% 29 3% 20 3% 20 3% 20 3% 20 3%
	36.5% (oral), 41.6% (dermal), 82.3% (inhalation)
<u>GHS label elements</u>	
Hazard pictograms	
Signal word	: Danger
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SECTION 2: Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (hearing organs)
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, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	 ▶ 308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P352 - IF ON SKIN: Wash with plenty of water. P303 + P313 - If skin irritation or rash occurs: Get medical advice or 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 advice or attention.
Storage	: 🗗 405 - Store locked up.
Disposal	: P 501 - 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)

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: K&L KEELOCK HI-SOLIDS EPOXY BLACK
Other means of identification	: Not applicable.

SECTION 3: Composition/information on ingredients

Ingredient name	%	CAS number
s-[4-(2,3-epoxipropoxi)phenyl]propane	≥20 - ≤50	1675-54-3
crystalline silica, respirable powder (<10 microns)	≥20 - ≤50	14808-60-7
1-methoxy-2-propanol	≥1.0 - ≤5.0	107-98-2
xylene	≥1.0 - ≤5.0	1330-20-7
Epoxy Resin (MW<=700)	≥1.0 - ≤5.0	67924-34-9
n-butyl acetate	≥1.0 - ≤5.0	123-86-4
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	≥1.0 - ≤5.0	68609-97-2
butan-1-ol	≥0.10 - ≤2.9	71-36-3
carbon black	≥1.0 - ≤5.0	1333-86-4
ethylbenzene	≥0.10 - ≤2.5	100-41-4
crystalline silica, respirable powder (>10 microns)	≤1.0	14808-60-7

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

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 Inhalation	 Causes serious eye irritation. Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

See toxicological information (Section 11)

Indication of immediate med	ica	I 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	1	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

		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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SECTION 6: Accidental release measures

SECTION 7: Handling and storage

Precautions for safe handling

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

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
s-[4-(2,3-epoxipropoxi)phenyl]propane crystalline silica, respirable powder (<10 microns)	None. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable
1-methoxy-2-propanol	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
xylene	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

SECTION 8: Exposure controls/personal protection

	-
Epoxy Resin (MW<=700)	None.
n-butyl acetate	NOM-010-STPS-2014 (Mexico, 4/2016).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	None.
butan-1-ol	NOM-010-STPS-2014 (Mexico, 4/2016).
	Absorbed through skin.
	TWA: 20 ppm 8 hours.
carbon black	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable
	fraction
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 20 ppm 8 hours.
crystalline silica, respirable powder (>10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable

Key to abbreviations

C = Ceiling Limit IPEL = Internal Permissible Exposure Limit STEL = Short term exposure limit

TLV = Threshold Limit Value

TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering : controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
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	

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SECTION 8: Exposure controls/personal 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.

SECTION 9: Physical and chemical properties

<u>Appearance</u>		
Physical state	uid.	
Color	available.	
Odor	aracteristic.	
Odor threshold	available.	
Molecular weight	applicable.	
рН	applicable.	
Melting point	t available.	
Boiling point	7.78°C (>100°F)	
Flash point	sed cup: 36.67°C (98°F)	
Auto-ignition temperature	available.	
Decomposition temperature	available.	
Flammability (solid, gas)	available.	
Lower and upper explosive (flammable) limits	available.	
Evaporation rate	4 (butyl acetate = 1)	
Vapor pressure	kPa (9.1 mm Hg)	
Vapor density	available.	
Relative density	3	
Density(Ibs / gal)	1	
Solubility	oluble in the following materials: cold water.	
Solubility in water	/I	
Partition coefficient: n- octanol/water	applicable.	
Viscosity	ematic (40°C (104°F)): >21 mm²/s (>21 cSt)	

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SECTION 9: Phys	ical and chemical properties			
Volatility	: 24% (v/v), 16.175% (w/w)			
% Solid. (w/w)	: 83.825			
SECTION 10: Stal	bility 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 halogenated compounds metal oxide/oxides 			

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 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	-
oxirane, mono[LD50 Oral	Rat	17100 mg/kg	-
(C12-14-alkyloxy)methyl]				
derivs.				
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
carbon black	LD50 Oral	Rat	>10 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 availab	le on the mixture i	tself.	-

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SECTION 11: Toxicological information

Product/ingredient name	Result			Species	Scor	e	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)	Eyes - Re		f the	Rabbit	0.4		24 hours	-
phenyl]propane		conjunctivae				24 hours		
		Eyes - Mild irritantRabbit-Skin - Erythema/EscharRabbit0.8			24 hours 4 hours	-		
	Skin - Edema		SUIIdi	Rabbit	0.8		4 hours	-
	Skin - Mil			Rabbit	-		4 hours	-
xylene	Skin - Mo			Rabbit	_		24 hours 500	-
, y.c., c							mg	
Conclusion/Summary	•				•			
Skin	: There a	are no da	ita availat	ole on the mix	xture itsel	f.		
Eyes	: There a	are no da	ta availat	ole on the mix	xture itsel	f.		
Respiratory	: There a	are no da	ita availat	ole on the mix	xture itsel	f.		
<u>Sensitization</u>								
Product/ingredient name	Route of exposure		Species			Resu	t	
pis-[4-(2,3-epoxipropoxi) phenyl]propane	skin		Mouse			Sensi	tizing	
oxirane, mono[skin		Guinea p	ig		Sensi	tizing	
(C12-14-alkyloxy)methyl]				-			-	
derivs.								
Conclusion/Summary								
Skin	: There a	are no da	ita availat	ole on the mix	xture itsel	f.		
Respiratory	: There a	are no da	ita availat	ole on the mix	xture itsel	f.		
Mutagenicity								
Conclusion/Summary	: There a	are no da	ta availat	ole on the mix	xture itsel	f.		
Carcinogenicity								
Conclusion/Summary	• Thoro c	ro no da	ta availat	ole on the mix	vturo iteol	f		
Classification		are no ua	ila avallai			1.		
	00114		NTD					
Product/ingredient name	OSHA	IARC	NTP					
bis-[4-(2,3-epoxipropoxi)	-	3	-					
phenyl]propane crystalline silica, respirable	-	1	Know	n to be a hun	nan carci	nogen.		
powder (<10 microns)								
xylene	-	3	-					
carbon black	-	2B 2B	-					
ethylbenzene crystalline silica, respirable	-	1	- Know	n to be a hun	nan carci	nogen		
powder (>10 microns)	_		T(TOW			nogen.		
Carcinogen Classificatio	on code:	1	ļ					
IARC: 1, 2A, 2B, NTP: Known to OSHA: + Not listed/not reg	3, 4 be a human c	arcinogen	; Reasonat	bly anticipated t	to be a hum	nan carc	inogen	
Reproductive toxicity								
Conclusion/Summary	: There a	are no da	ita availat	ole on the mix	xture itsel	f.		
Teratogenicity								
Conclusion/Summary	: There a	are no da	ta availat	ole on the mix	xture itsel	f		
- on oracion our minury						••		

SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
1-methoxy-2-propanol xylene n-butyl acetate butan-1-ol	Category 3 Category 3 Category 3 Category 3 Category 3		Narcotic effects Respiratory tract irritation Narcotic effects Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 1	inhalation	-
	Category 2	-	hearing organs

Target organs

Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow.
 Contains material which may cause damage to the following organs: blood, kidneys,

lungs, the nervous system, heart, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Delayed and immediate effe	ects 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. 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. Carbon black is utilized as a raw material in many liquid coating formulations. In this case, the carbon black particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of carbon black when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Most carbon blacks contain trace quantities of polyaromatic hydrocarbons (PAH). PAHs are not expected to be released in biological fluids and are therefore not likely available for biological activity. 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. 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		There are no data av	ailabla an tha	mixture itee	If		
effects							
Potential delayed effects	1	There are no data av	ailable on the	e mixture itse	lf.		
<u>Long term exposure</u>							
Potential immediate effects	:	There are no data av	ailable on the	e mixture itse	lf.		
Potential delayed effects	1	There are no data av	ailable on the	e mixture itse	lf.		
Potential chronic health effe	ects						
General	:	Causes damage to c repeated contact car Once sensitized, a s to very low levels.	n defat the sk	in and lead to	o irritation, cr	acking and/o	dermatitis.
Carcinogenicity		May cause cancer.	Risk of cance	er denends o	n duration an	d level of exp	osure
Mutagenicity		No known significant		•			
Reproductive toxicity		No known significant					
		0					
Numerical measures of toxi	city	2					
Acute toxicity estimates			Γ	1	1	1	
Product/ingredient name			Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)

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K&L KEELOCK HI-SOLIDS EPOXY BLACK	17284.7	17635	N/A	34.1	4.2
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
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
butan-1-ol	790	3400	N/A	24	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	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
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
oxirane, mono[LC50 >100 mg/l	Fish	96 hours
(C12-14-alkyloxy)methyl] derivs.			
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
·	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28	days	-	-
ethylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-lif	e	Photolys	sis	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not readily
xylene n-butyl acetate	-		-		Readily Readily
ethylbenzene	-		-		Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
rethoxy-2-propanol	<1	-	low	
xylene	3.12	7.4 to 18.5	low	
n-butyl acetate	2.3	-	low	
oxirane, mono[3.77	-	low	
(C12-14-alkyloxy)methyl] derivs.				
butan-1-ol	1	-	low	
ethylbenzene	3.6	79.43	low	

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SECTION 12: Ecological information

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 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

SECTION 14: Transport information

	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane, Epoxy Resin (MW<=700))	Not applicable.
Product RQ (lbs) RQ substances	Not applicable. Not applicable.	Not applicable. Not applicable.	Not applicable. Not applicable.

Additional information

Mexico

: None identified.

Product co	de KL96000177/0)1	Date of issue 4 July 2021	Version 7	
Product name K&L KEELOCK HI-SOLIDS EPOXY BLACK					
SECTIO	ON 14: Trans	port information	on		
IMDG	: The marine	pollutant mark is not re	quired when transported in sizes of ≤5 L o	or ≤5 kg.	
IATA	: The enviror regulations		ostance mark may appear if required by o	ther transportation	
Special pre	ecautions for user		er's premises: always transport in closed nsure that persons transporting the produ ent or spillage.		
Transport to IMO inst	in bulk according truments	Not applicable.			
SECTIO	ON 15: Regul	atory informat	ion		
Mexico					

<u>Mexico</u>

Classification

Flammability : 3 Health : 3 Reactivity : 0

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

SECTION 16: Other information

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

Health : 3 * Flammability : 3 Physical hazards : 0 (*) - Chronic

effects

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

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

Date of previous issue Organization that prepared the SDS	: 3/17/2021 : 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 = International Air Transport Association IBC = 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

SECTION 16: Other information

UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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

Disclaimer

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