SAFETY DATA SHEET



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

Date of revision 4 September 2024

Version 8

Date of issue 4 September 2024

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

Product name	: K&L KL4600 KOLOR-TAR URETHANE/COAL TAR
Product code	: KL4600/03
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: P rofessional 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
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 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 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 11.8% (oral), 36.1% (dermal), 30% (inhalation)

GHS label elements

Product name K&L KL4600 KOLOR-TAR URETHANE/COAL TAR

SECTION 2: Hazards identification

1

Hazard pictograms



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Signal word	Danger
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. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H340 - May cause genetic defects. H350 - May cause cancer. H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (respiratory system)
Precautionary statements	D201 Obtain analisi instructions before use
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. P284 - Wear respiratory 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. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	 P308 + 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. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. 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. P333 + 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	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
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. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic
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Product name K&L KL4600 KOLOR-TAR URETHANE/COAL TAR

SECTION 2: Hazards identification

condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. 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. **Supplemental label** Photosensitive agents : In case of accidental eye contact, avoid direct exposure to elements (First aid the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed - get medical attention if pain, irritation or blistering measures): occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed - get medical attention if pain, irritation, rash or

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

blistering occurs after contact.

Substance/mixture	: Mixture
Product name	: K&L KL4600 KOLOR-TAR I
Other means of identification	: Not applicable.

Ingredient name	%	CAS number
x ylene	≥10 - ≤20	1330-20-7
Pitch, coal tar, high-temp.	≥10 - ≤20	65996-93-2
diiron trioxide	≥10 - ≤20	1309-37-1
Talc , not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha	≥1.0 - ≤5.0	53862-89-8
hydroomegahydroxypoly[oxy(methyl-1,2-ethanediyl)]		
4,4'-methylenediphenyl diisocyanate	≥1.0 - ≤3.8	101-68-8
Isocyanic acid, polymethylenepolyphenylene ester	≥1.0 - ≤5.0	9016-87-9
heptan-2-one	≥1.0 - ≤3.1	110-43-0
4-chloro-α,α,α-trifluorotoluene	≤1.8	98-56-6
ethylbenzene	<1.0	100-41-4
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7
m-tolylidene diisocyanate	<1.0	26471-62-5

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. In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.

URETHANE/COAL TAR

Product name K&L KL4600 KOLOR-TAR URETHANE/COAL TAR

SECTION 4: First aid measures

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. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
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/e	effec	ts, acute and delayed
Potential acute health effect		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties 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	otom	<u>IS</u>
See toxicological informa	tion	(Section 11)
Indication of immediate med	<u>dica</u>	l attention and special treatment needed, if necessary
Notes to physician		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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

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 nitrogen oxides halogenated compounds carbonyl halides metal oxide/oxides Cyanate and isocyanate.

thoroughly with water before removing it, or wear gloves.

providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

Product name K&L KL4600 KOLOR-TAR URETHANE/COAL TAR

SECTION 5: Firefighting measures

hydrogen cyanide

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 containment 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.
Special provisions	: 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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SECTION 6: Accidental release measures

SECTION 7: Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away 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	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO ₂ will be formed, which, in closed containers, could result in pressurization.

SECTION 8: Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

Product name K&L KL4600 KOLOR-TAR URETHANE/COAL TAR

SECTION 8: Exposure controls/personal protection

Ingradiant name	Exposuro limite			
Ingredient name	Exposure limits			
x ylene	NOM-010-STPS-2014 (Mexico, 4/2016). [Xileno, mezcla] STEL: 150 ppm 15 minutes.			
Pitch, coal tar, high-temp.	TWA: 100 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016). [Breas de carbón volátiles]			
diiron trioxide	TWA: 0.2 mg/m ³ , (as soluble aerosol in Benzene) 8 hours. Form: soluble aerosol NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction			
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 7/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable			
Isocyanic acid, polymethylenepolyphenylene ester, polymer with . alphahydroomegahydroxypoly[oxy(methyl-1,2-ethanediyl)]	None.			
4,4'-methylenediphenyl diisocyanate	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.005 ppm 8 hours.			
Isocyanic acid, polymethylenepolyphenylene ester heptan-2-one	None. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.			
4-chloro-α,α,α-trifluorotoluene	IPEL (-). TWA: 0.57 ppm STEL: 1.71 ppm			
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			
m-tolylidene diisocyanate	None.			
Key to abbreviations				
C= Ceiling LimitSTIPEL= Internal Permissible Exposure LimitTL	EL = Short term exposure limit V = Threshold Limit Value /A = Time Weighted Average			
Consult local authorities for acceptable exposure limits.				
Recommended monitoring procedures : 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				

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.

also need to keep gas, vapor or dust concentrations below any lower explosive

Individual protection measures

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SECTION 8: Exposure controls/personal protection

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical p eating, smoking and using the lavatory and at the end of the working Appropriate techniques should be used to remove potentially contam Contaminated work clothing should not be allowed out of the workpla contaminated clothing before reusing. Ensure that eyewash stations showers are close to the workstation location.	period. inated clothing. ce. Wash
Eye/face protection <u>Skin protection</u>	Chemical splash goggles.	
Hand protection	Chemical-resistant, impervious gloves complying with an approved so be worn at all times when handling chemical products if a risk assess this is necessary. Considering the parameters specified by the glove check during use that the gloves are still retaining their protective pro should be noted that the time to breakthrough for any glove material a different for different glove manufacturers. In the case of mixtures, c several substances, the protection time of the gloves cannot be accu- estimated.	ment indicates manufacturer, perties. It may be onsisting of
Gloves	butyl rubber	
Body protection	Personal protective equipment for the body should be selected based being performed and the risks involved and should be approved by a before handling this product. When there is a risk of ignition from sta wear anti-static protective clothing. For the greatest protection from se discharges, clothing should include anti-static overalls, boots and glow	specialist itic electricity, static
Other skin protection	Appropriate footwear and any additional skin protection measures sh selected based on the task being performed and the risks involved ar approved by a specialist before handling this product.	
Respiratory protection	Use an air-fed respirator unless a site-specific assessment determine fed respirator is not necessary, in which case the results of the risk as should be utilized to determine whether respiratory protection is nece type of protection is appropriate. Respirator selection must be based anticipated exposure levels, the hazards of the product and the safe of the selected respirator.	ssessment ssary and what I on known or
Restrictions on use	Persons with a history of asthma, allergies or chronic or recurrent res disease should not be employed in any process in which this product	

SECTION 9: Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Black.
Odor	: Characteristic.
Odor threshold	: Not available.
Molecular weight	: Not applicable.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 30°C (86°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.

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SECTION 9: Physical and chemical properties

Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	1.6	
Density(lbs / gal)	13.35	
Solubility(ies)	Media Result	
	old water Not soluble	
Solubility in water	Not available.	
Partition coefficient: n- octanol/water	Not applicable.	
Viscosity	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	
Volatility	38% (v/v), 21.17% (w/w)	
% Solid. (w/w)	78.83	

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	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials Cyanate and isocyanate. carbon oxides nitrogen oxides halogenated compounds hydrogen cyanide carbonyl halides metal oxide/oxides

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Pitch, coal tar, high-temp.	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3300 mg/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
4,4'-methylenediphenyl	LD50 Oral	Rat	9200 mg/kg	-
diisocyanate				
Isocyanic acid,	LD50 Dermal	Rabbit	>9400 mg/kg	-
polymethylenepolyphenylene				
ester				
	LD50 Oral	Rat	49 g/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
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SECTION 11: Toxicological information

	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
4-chloro-α,α,α-	LC50 Inhalation Vapor	Rat	33080 mg/m ³	4 hours
trifluorotoluene			, , , , , , , , , , , , , , , , , , ,	
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 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	-
m-tolylidene diisocyanate	LC50 Inhalation Dusts and mists	Rat	107 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	0.48 mg/l	1 hours
	LD50 Dermal	Rabbit	>9440 mg/kg	-
	LD50 Oral	Rat	5.8 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
4,4'-methylenediphenyl diisocyanate	Skin - Irritant	Rabbit	-	-	-
Conclusion/Summary					

<u>oonoraoron/oannary</u>	
Skin	: There are no data available on the mixture itself.

- : There are no data available on the mixture itself.
- **Eyes** : There are no data available on the mixture itself. Respiratory
- **Sensitization**

Product/ingredient name	Route of exposure	Species		Result		
,4'-methylenediphenyl diisocyanate	Respiratory	Guinea pig		Sensitizing		
	skin	Mouse		Sensitizing		
Conclusion/Summary		•		+		
Skin	: There are no data available on the mixture itself.					
Respiratory	: There are no data available on the mixture itself.					
Mutagenicity						
Conclusion/Summary	: There are no data available on the mixture itself.					
Carcinogenicity						
Product/ingredient name	Result		Species	Dose	Exposure	
4'-methylenediphenyl diisocyanate	Positive - Inhalati	on - TC	Rat	0 to 6 mg/m ³	2 years; 5 days per week	

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

Classification

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SECTION 11: Toxicological information

Product/ingredient name	OSHA	IARC	NTP
x ylene	-	3	-
Pitch, coal tar, high-temp.	-	1	-
diiron trioxide	-	3	-
4,4'-methylenediphenyl diisocyanate	-	3	-
Isocyanic acid, polymethylenepolyphenylene ester	-	3	-
4-chloro-α,α,α- trifluorotoluene	-	2B	-
ethylbenzene	-	2B	-
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a human carcinogen.
m-tolylidene diisocyanate	-	2B	Reasonably anticipated to be a human carcinogen.

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
x ylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly[oxy (methyl-1,2-ethanediyl)]	Category 3	-	Respiratory tract irritation
4,4'-methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
Isocyanic acid, polymethylenepolyphenylene ester	Category 3	-	Respiratory tract irritation
heptan-2-one	Category 3	-	Narcotic effects
4-chloro-α,α,α-trifluorotoluene	Category 3	-	Respiratory tract irritation
m-tolylidene diisocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

Name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly[oxy (methyl-1,2-ethanediyl)]	Category 2	inhalation	-
4,4'-methylenediphenyl diisocyanate	Category 2	inhalation	respiratory system
Isocyanic acid, polymethylenepolyphenylene ester	Category 2	inhalation	-
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, bladder, peripheral nervous system, cardiovascular system, upper respiratory tract, skin, adrenal, eye, lens or cornea.

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. : No known significant effects or critical hazards. Ingestion **Over-exposure signs/symptoms** : Adverse symptoms may include the following: Eye contact pain or irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma reduced fetal weight increase in fetal deaths skeletal malformations Skin contact Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations

SECTION 11: Toxicological information

Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effe	ects	and also chronic effects from short and long term exposure
Conclusion/Summary		There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	-	There are no data available on the mixture itself.
Potential delayed effects	- 1	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	ects	
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	May cause genetic defects.
Reproductive toxicity	:	May damage fertility or the unborn child.
Numerical measures of toxi	icity	
Acute toxicity estimates		

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
&L KL4600 KOLOR-TAR URETHANE/COAL TAR	9511.3	6330.0	N/A	31.1	4.5
xylene	4300	1700	N/A	11	1.5
Pitch, coal tar, high-temp.	3300	N/A	N/A	N/A	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly[oxy (methyl-1,2-ethanediyl)]	N/A	N/A	N/A	11	1.5
4,4'-methylenediphenyl diisocyanate	9200	N/A	N/A	11	N/A
Isocyanic acid, polymethylenepolyphenylene ester	49000	N/A	N/A	N/A	1.5
heptan-2-one	1600	10206	N/A	16.7	N/A
4-chloro-a,a,a-trifluorotoluene	13000	2500	N/A	33.08	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
m-tolylidene diisocyanate	5800	N/A	N/A	0.24	0.107

SECTION 12: Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
díiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
m-tolylidene diisocyanate	Acute EC50 12.5 mg/l	Daphnia	48 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
heptan-2-one ethylbenzene	OECD 310 -	69 % - Readily - 28 79 % - Readily - 10		-	-
Product/ingredient name	Aquatic half-life		Photolysi	S	Biodegradability
₩ylene heptan-2-one ethylbenzene m-tolylidene diisocyanate	- - -		- - -		Readily Readily Readily Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
x ylene	3.12	7.4 to 18.5	Low	
Pitch, coal tar, high-temp.	6.04	-	High	
4,4'-methylenediphenyl	4.51	-	High	
diisocyanate				
heptan-2-one	2.26	-	Low	
ethylbenzene	3.6	79.43	Low	
m-tolylidene diisocyanate	3.43	-	Low	

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SECTION 12: Ecological information

<u>Mobility in soil</u>

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
	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		
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.	(Pitch, coal tar, high-temp.)	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Mexico

IMDG

: None identified.

: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.

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Product name K&L KL4600 KOLOR-TAR URETHANE/COAL TAR

SECTION 14: Transport information

IATA

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

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

Transport in bulk according : Not applicable.

to IMO instruments

SECTION 15: Regulatory information

<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	: 7/4/2021 : 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 UN = United Nations

SECTION 16: Other information

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.