## **SAFETY DATA SHEET**



Date of issue/Date of revision4 September 2024Version 10

Section 1. Identification		
Product name	: KL4600 KOL-TAR URETHANE/COAL TAR	
Product code	: KL4600/01	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer Emergency telephone	<ul> <li>PPG Industries, Inc.</li> <li>One PPG Place</li> <li>Pittsburgh, PA 15272</li> <li>(412) 434-4515 (U.S.)</li> </ul>	
<u>number</u>	(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

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>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 1 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</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 11.8% (oral), 36.1% (dermal), 30% (inhalation)
GHS label elements	

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Product name KL4600 KOL-TAR URETHANE/COAL TAR

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## Section 2. Hazards identification



Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (respiratory system)</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	<ul> <li>IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.</li> <li>Photosensitive agents : 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, rash or blistering 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 blistering occurs after contact.</li> </ul>
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 2. Hazards identification

Supplemental label elements	: Moisture-sensitive material. Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. 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. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. 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 contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

- Substance/mixture Product name
- : Mixture
- : KL4600 KOL-TAR URETHANE/COAL TAR

Ingredient name	%	CAS number
xvlene	≥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

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.

#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
	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.
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	<ul> <li>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.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Most important sympt	toms/effects, acute and delayed

Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
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
Eye contact	: Adverse symptoms may include the following: 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

#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 4. First aid measures

In	aes	tio	n
	yea		

: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li></ul>
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. <li>No specific treatment.</li>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

-	_
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds carbonyl halides metal oxide/oxides Cyanate and isocyanate. 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.

Product name KL4600 KOL-TAR URETHANE/COAL TAR

## 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.

Product name KL4600 KOL-TAR URETHANE/COAL TAR

## 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 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 <sub>2</sub> will be formed, which, in closed containers, could result in pressurization.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits				
xylene	OSHA PEL (United States, 5/2018).				
· ·	[Xylenes]				
	TWA: 435 mg/m <sup>3</sup> 8 hours.				
	TWA: 100 ppm 8 hours.				
	ACGIH TLV (United States, 7/2023). [p-				
	xylene and mixtures containing p-xylene]				
	Ototoxicant.				
	TWA: 20 ppm 8 hours.				
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## Section 8. Exposure controls/personal protection

Pitch, coal tar, high-temp.	ACGIH TLV (United States, 7/2023). [Coal
	tar pitch volatiles]
	TWA: 0.2 mg/m³, (as benzene soluble
	aerosol) 8 hours.
	OSHA PEL (United States, 5/2018). [Coal
	tar pitch volatiles (benzene soluble
	fraction), anthracene, BaP, phenanthrene,
	acridine, chrysene, pyrene]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Benzene
	0
	soluble
diiron trioxide	ACGIH TLV (United States, 7/2023).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 7/2023).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m³
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha	None.
hydroomegahydroxypoly[oxy(methyl-1,2-ethanediyl)]	
4,4'-methylenediphenyl diisocyanate	ACGIH TLV (United States, 7/2023).
	TWA: 0.005 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	CEIL: 0.2 mg/m <sup>3</sup>
	CEIL: 0.02 ppm
	ACGIH TLV (United States, 1/2007).
	TWA: 0.05 mg/m <sup>3</sup> 8 hours.
Isocyanic acid, polymethylenepolyphenylene ester	CA Alberta Provincial (Canada, 3/2023).
	OEL: 0.07 mg/m <sup>3</sup> 8 hours.
	OEL: 0.005 ppm 8 hours.
heptan-2-one	ACGIH TLV (United States, 7/2023).
	TWA: 233 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 465 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
4-chloro-α,α,α-trifluorotoluene	IPEL (-).
	TWA: 0.57 ppm
	STEL: 1.71 ppm
ethylbenzene	ACGIH TLV (United States, 7/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 7/2023). [Silica,
	crystalline]
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
	Respirable
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## Section 8. Exposure controls/personal protection

m-tolylidene diisocyanate		OSHA PEL Z3 (United States, 6/2016). TWA: 10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) 8 hours. Form: Respirable TWA: 250 mppcf / (%SiO <sub>2</sub> +5) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). [Silica, crystalline] TWA: 50 μg/m <sup>3</sup> 8 hours. Form: Respirable dust None.
	Key to abbreviations	
C = Ceiling Limit F = Fume IPEL = Internal Permissible Exp OSHA = Occupational Safety and R = Respirable	f Governmental Industrial Hygienists. posure Limit I Health Administration. 20 Subpart Z - Toxic and Hazardous Substances	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average
Recommended monitoring	Reference should be made to approp	riate monitoring standards. Reference to national
procedures	guidance documents for methods for also be required.	the determination of hazardous substances will
Appropriate engineering controls	<ul> <li>other engineering controls to keep wo recommended or statutory limits. The vapor or dust concentrations below ar ventilation equipment.</li> <li>Emissions from ventilation or work pro they comply with the requirements of</li> </ul>	lse process enclosures, local exhaust ventilation or orker exposure to airborne contaminants below any e engineering controls also need to keep gas, ny lower explosive limits. Use explosion-proof ocess equipment should be checked to ensure environmental protection legislation. In some
	will be necessary to reduce emissions	neering modifications to the process equipment s to acceptable levels.
Individual protection measur	res	
Hygiene measures	eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should ne	bughly after handling chemical products, before y and at the end of the working period. ed to remove potentially contaminated clothing. ot be allowed out of the workplace. Wash . Ensure that eyewash stations and safety location.
Eye/face protection	: Chemical splash goggles.	
Skin protection		
Hand protection	worn at all times when handling chem necessary. Considering the paramete during use that the gloves are still reta noted that the time to breakthrough fo	s complying with an approved standard should be lical products if a risk assessment indicates this is ers specified by the glove manufacturer, check aining their protective properties. It should be or any glove material may be different for different mixtures, consisting of several substances, the be accurately estimated.

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## Section 8. Exposure controls/personal protection

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	: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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.
	The respiratory protection shall be in accordance to 29 CFR 1910.134.
Restrictions on use	: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

## Section 9. Physical and chemical properties

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- to pour arroo			
Physical state	1	Liquid.	
Color	1	Black.	
Odor	1	Characteristic.	
Odor threshold	1	Not available.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 30°C (86°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	:	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	1	1.6	
Density(lbs / gal)	:	13.35	
		Media	Result
Solubility(ies)	÷	old water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)):	>21 mm²/s (>21 cSt)

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## **Section 9. Physical and chemical properties**

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
<b>x</b> ylene	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			0.0	
Isocyanic acid,	LD50 Dermal	Rabbit	>9400 mg/kg	-
polymethylenepolyphenylene			0.0	
ester				
	LD50 Oral	Rat	49 g/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
4-chloro-α,α,α-trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m <sup>3</sup>	4 hours
	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/m³	4 hours
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## Section 11. Toxicological information

	LC50 Inha LD50 Der LD50 Ora	mal	apor	F	Rat Rabbit Rat		0.48 m >9440 5.8 g/ł	mg/kg	1 hours - -
Conclusion/Summary	There a	re no data	a available	on the	mixture	itself.			
Product/ingredient name	Result			Specie	es	Score		Exposure	Observation
<b>K</b> ylene	Skin - Mo	derate irr	tant Rabbit -				24 hours 500	-	
1,4'-methylenediphenyl diisocyanate	Skin - Irritant			Rabbit		-	-	mg -	-
Conclusion/Summary			•						
Skin	There a	re no data	a available	on the	mixture	itself.			
Eyes	There a	re no data	a available	on the	mixture	itself.			
	There a	re no data	a available	on the	mixture	itself.			
<u>ensitization</u>									
Product/ingredient name	Route of exposure		Species				Resul	t	
,4'-methylenediphenyl diisocyanate	Respirato	atory Guinea pig Sensitizing							
-	skin		Mouse Sensitizing						
			a available a available						
Conclusion/Summary	There a	re no data	a available	on the	mixture	itself.			
Product/ingredient name	Result			Sp	ecies		Dose		Exposure
4'-methylenediphenyl diisocyanate	Positive -	Inhalatio	n - TC	Ra	t		0 to 6		2 years; 5 days per week
Conclusion/Summary	There a	re no data	a available	on the	mixture	itself.			
Product/ingredient name	OSHA	IARC	NTP						
<b>x</b> ylene	-	3	-						
Pitch, coal tar, high-temp.	-	1	-						
diiron trioxide	-	3	-						
4,4'-methylenediphenyl diisocyanate	-	3	-						
Isocyanic acid,	-	3	-						
polymethylenepolyphenylene ester									
4-chloro-α,α,α-trifluorotoluene	-	2B	-						
ethylbenzene	-	2B	-						
	+	1	IKnown	n to he	a humai	n carcin	oden.		
crystalline silica, respirable powder (<10 microns)						- our onr	- 9 - 11		

Date of issue 4 September 2024 Version 10

#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

# Section 11. Toxicological information 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
<b>x</b> 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)

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

#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 11. Toxicological information

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

#### Information on the likely routes of exposure

# Potential acute health effectsEye contact: (Inhalation:

: 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/symptoms

Eye contact	: Adverse symptoms may include the following: 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
Skin contact	<ul> <li>skeletal malformations</li> <li>Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight</li> </ul>
Ingestion	<ul> <li>increase in fetal deaths skeletal malformations</li> <li>Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>

#### Delayed and immediate effects 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

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#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 11. Toxicological information

	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.
<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.
<u>Long 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.
Potential chronic health eff	<u>ects</u>
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: 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 toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
KL4600 KOL-TAR URETHANE/COAL TAR	9511.3	6330.0	N/A	31.1	4.1
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	1.5
4-chloro-α,α,α-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

#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## 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
Peptan-2-one ethylbenzene	OECD 310 -		dily - 28 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene heptan-2-one ethylbenzene m-tolylidene diisocyanate	- - - -		- - -		Readily Readily Readily Not read	dily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> 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

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

## Section 13. Disposal considerations

**Disposal methods** 

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

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#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 13. Disposal considerations

inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

## 14. Transport information

-	1		1
	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group		Ш	111
Environmental hazards	No.		Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Pitch, coal tar, high-temp.)	Not applicable.
Product RQ (lbs)	620	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

#### Additional information

Additional inform	
DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precaution	ns 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

Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b) : At least one component is inactive. United States - TSCA 12(b) - Chemical export notification: m-tolylidene diisocyanate One time notification United States - TSCA 5(a)2 - Final significant new use rules:  $\mathbf{A}$ -chloro- $\alpha$ , $\alpha$ , $\alpha$ -trifluorotoluene Listed 40 CFR 799.5089 United States - TSCA 5(a)2 - Proposed significant new use rules: m-tolylidene diisocyanate Listed 80 FR 2068, Jan 15, 2015 SARA 302/304

## **SARA 304 RQ**

: Not applicable.

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

No products were found.

#### SARA 311/312

Classification	<ul> <li>FLAMMABLE LIQUIDS - Category 3         <ul> <li>ACUTE TOXICITY (inhalation) - Category 4</li> <li>SKIN IRRITATION - Category 2</li> <li>EYE IRRITATION - Category 2A</li> <li>RESPIRATORY SENSITIZATION - Category 1</li> <li>SKIN SENSITIZATION - Category 1</li> <li>GERM CELL MUTAGENICITY - Category 1</li> <li>CARCINOGENICITY - Category 1A</li> <li>TOXIC TO REPRODUCTION - Category 1B</li> <li>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</li> </ul> </li> </ul>
	irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

**Composition/information on ingredients** 

Name	%	Classification
<b>x</b> ylene	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
Pitch, coal tar, high-temp.	≥10 - ≤20	GERM CELL MUTAGENICITY - Category 1B
		CARCINOGENICITY - Category 1A
		TOXIC TO REPRODUCTION - Category 1B
		HNOC - Defatting irritant
Talc , not containing asbestiform	≥5.0 - ≤10	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
Isocyanic acid,	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
polymethylenepolyphenylene		ACUTE TOXICITY (inhalation) - Category 4
ester, polymer with .alphahydro-		SKIN IRRITATION - Category 2
.omegahydroxypoly[oxy(methyl-		EYE IRRITATION - Category 2A
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Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 15. Regulatory information

1,2-ethanediyl)]		RESPIRATORY SENSITIZATION - Category 1A
- /-		SKIN SENSITIZATION - Category 1B
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
4,4'-methylenediphenyl	≥1.0 - ≤3.8	ACUTE TOXICITY (inhalation) - Category 4
diisocyanate	=1.0 =0.0	SKIN IRRITATION - Category 2
disocyanate		EYE IRRITATION - Category 2A
		RESPIRATORY SENSITIZATION - Category 1A
		SKIN SENSITIZATION - Category 1A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
leoovania acid	≥1.0 - ≤5.0	EXPOSURE) - Category 2 ACUTE TOXICITY (inhalation) - Category 4
Isocyanic acid,	21.0 - ≥3.0	SKIN IRRITATION - Category 2
polymethylenepolyphenylene		0,
ester		EYE IRRITATION - Category 2A
		RESPIRATORY SENSITIZATION - Category 1A
		SKIN SENSITIZATION - Category 1A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
hantan 2 ana	N 0 10 1	EXPOSURE) - Category 2
heptan-2-one	≥1.0 - ≤3.1	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
4-chloro-α,α,α-trifluorotoluene	≤1.8	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
crystalline silica, respirable	<1.0	CARCINOGENICITY - Category 1A
powder (<10 microns)		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
m-tolylidene diisocyanate	<1.0	ACUTE TOXICITY (inhalation) - Category 1
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
	I	
		United States Page: 19/21

#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 15. Regulatory information

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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#### SARA 313

	Chemical name	CAS number	<b>Concentration</b>
Supplier notification	: xylene	1330-20-7	10 - 30
	4,4'-methylenediphenyl diisocyanate	101-68-8	1 - 5
	Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	1 - 5
	ethylbenzene	100-41-4	0.1 - 1
	m-tolylidene diisocyanate	26471-62-5	0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**WARNING**: Cancer - www.P65Warnings.ca.gov.

## Section 16. Other information

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

National Fine Ducto sting Accessibility (U.O.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. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

National Fire Protection Association (U.S.A.)					
Health : 3 Flamma	ibility : 3 Instability : 0				
Date of previous issue	: 6/15/2021				
Organization that prepared the SDS	: EHS				
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations				

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#### Product name KL4600 KOL-TAR URETHANE/COAL TAR

## Section 16. Other information

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

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