# **SAFETY DATA SHEET**



Date of issue/Date of revision 15 June 2021 Version 9

| Section 1. Identification        |   |  |  |
|----------------------------------|---|--|--|
| Product name                     | : KL4600 KOL-TAR URETHANE/COAL TAR  |  |  |
| Product code                     | : KL4600/05   |  |  |
| Other means of<br>identification | : Not available.  |  |  |
| Product type                     | : Liquid.   |  |  |
| Relevant identified uses of      | he substance or mixture and uses advised against  |  |  |
| Product use                      | : Industrial applications.  |  |  |
| Use of the substance/<br>mixture | : Coating.  |  |  |
| Uses advised against             | : Not applicable.   |  |  |
| Manufacturer                     | : PPG Industries, Inc.<br>One PPG Place<br>Pittsburgh, PA 15272   |  |  |
| Emergency telephone<br>number    | : (412) 434-4515 (U.S.)<br>(514) 645-1320 (Canada)<br>SETIQ Interior de la República: 800-00-214-00 (México)<br>SETIQ Ciudad de México: (55) 5559-1588 (México) |  |  |
| Technical Phone Number           | : 888-977-4762  |  |  |

# Section 2. Hazards identification

| OSHA/HCS status                               | <ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard<br/>(29 CFR 1910.1200).</li> </ul>   |
|---|---|
| Classification of the<br>substance or mixture | <ul> <li>FLAMMABLE LIQUIDS - Category 3<br/>ACUTE TOXICITY (inhalation) - Category 4<br/>SKIN IRRITATION - Category 2<br/>EYE IRRITATION - Category 2A<br/>RESPIRATORY SENSITIZATION - Category 1<br/>SKIN SENSITIZATION - Category 1<br/>GERM CELL MUTAGENICITY - Category 1<br/>CARCINOGENICITY - Category 1A<br/>TOXIC TO REPRODUCTION - Category 1B<br/>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract<br/>irritation) - Category 3<br/>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> </ul> |
|   | Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 11.8%<br>(oral), 36.1% (dermal), 30% (inhalation)  |
| GHS label elements                            |   |

#### **GHS label elements**

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.<br/>Causes skin irritation.<br/>May cause an allergic skin reaction.<br/>Causes serious eye irritation.<br/>Harmful if inhaled.<br/>May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br/>May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br/>May cause genetic defects.<br/>May cause genetic defects.<br/>May cause cancer.<br/>May damage fertility or the unborn child.<br/>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<br>been read and understood. Wear protective gloves, protective clothing and eye or face<br>protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks,<br>open flames and other ignition sources. No smoking. Use explosion-proof electrical,<br>ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static<br>discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor.<br>Wash thoroughly after handling. Contaminated work clothing must not be allowed out of<br>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. 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<br>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<br>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 |
|---|-------------|------------|
| <b>x</b> 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 fibers                               | ≥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              | <ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> <li>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.</li> </ul>          |
|--------------------------|--|
| 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<br/>or use recognized skin cleanser. Do NOT use solvents or thinners.<br/>In case of accidental skin contact, avoid direct exposure to the sun or other sources of<br/>UV light as severe irritation including burns may result. These reactions can be delayed<br/>– get medical attention if pain, irritation, rash or blistering occurs after contact.</li> </ul> |
| 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 symptom   | ns/effects, acute and delayed  |
| Potential acute health e | ffects   |
| Eye contact              | : Causes serious eye irritation.   |
| Inhalation               | <ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma<br/>symptoms or breathing difficulties if inhaled.</li> </ul>   |

#### : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

|   |          |             |            | •                  |  |
|---|----------|-------------|------------|--------------------|--|
| : | No known | significant | effects or | r critical hazards |  |

#### **Over-exposure signs/symptoms**

Skin contact

Ingestion

| Eye contact     | : Adverse symptoms may include the following:                   |
|-----------------|---|
| Lye contact     | pain or irritation  |
|                 |   |
|                 | vatering  |
| La basta d'a ca | 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    | <ul> <li>Adverse symptoms may include the following:</li> </ul> |
|                 | irritation  |
|                 | redness   |
|                 | dryness   |
|                 | cracking  |
|                 | reduced fetal weight  |
|                 | increase in fetal deaths  |
|                 | skeletal malformations  |

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### Section 4. First aid measures

| Ingestion |
|-----------|
|-----------|

: 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<br>decomposition products    | : Decomposition products may include the following materials:<br>carbon oxides<br>nitrogen oxides<br>halogenated compounds<br>carbonyl halides<br>metal oxide/oxides<br>Cyanate and isocyanate.<br>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.  |

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### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| For non-emergency<br>personnel | : | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put<br>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 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<br>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,<br>including any<br>incompatibilities | <ul> <li>Storage temperature: 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.</li> <li>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.</li> </ul>   |

# Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

| Ingredient name             | Exposure limits  |  |  |  |  |
|-----------------------------|--|--|--|--|--|
| xylene                      | ACGIH TLV (United States, 3/2020).   |  |  |  |  |
|                             | STEL: 651 mg/m <sup>3</sup> 15 minutes.  |  |  |  |  |
|                             | STEL: 150 ppm 15 minutes.  |  |  |  |  |
|                             | TWA: 434 mg/m <sup>3</sup> 8 hours.  |  |  |  |  |
|                             | TWA: 100 ppm 8 hours.<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 435 mg/m³ 8 hours. |  |  |  |  |
|                             |  |  |  |  |  |
|                             |  |  |  |  |  |
|                             | TWA: 100 ppm 8 hours.  |  |  |  |  |
| Pitch, coal tar, high-temp. | OSHA PEL (United States, 5/2018).  |  |  |  |  |
|                             | United States Page: 7/20   |  |  |  |  |

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# Section 8. Exposure controls/personal protection

|   | TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Benzene           |
|---|---|
|   |   |
|   | ACGIH TLV (United States, 3/2020).                          |
|   | TWA: 0.2 mg/m³, (as benzene soluble                         |
|   | aerosol) 8 hours.   |
| diiron trioxide   | OSHA PEL (United States, 5/2018).                           |
|   | TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Fume               |
|   | TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable          |
|   | fraction  |
|   | TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust         |
|   | ACGIH TLV (United States, 3/2020).                          |
|   | TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable          |
|   | fraction  |
| Talc, not containing asbestiform fibers                               | ACGIH TLV (United States, 3/2020).                          |
|   | 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, 3/2020).                          |
|   | 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, 6/2018).                     |
| 5 /1 5 5 1 51 5   | 8 hrs OEL: 0.07 mg/m <sup>3</sup> 8 hours.                  |
|   | 8 hrs OEL: 0.005 ppm 8 hours.                               |
| heptan-2-one  | ACGIH TLV (United States, 3/2020).                          |
|   | 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, 3/2020).                          |
|   | TWA: 20 ppm 8 hours.  |
|   | OSHA PEL (United States, 5/2018).                           |
|   | TWA: 435 mg/m <sup>3</sup> 8 hours.                         |
|   |   |
| crystalline silica, respirable powder (<10 microns)                   | TWA: 100 ppm 8 hours.<br>ACGIH TLV (United States, 3/2020). |
| (10  Interval)  |   |
|   | TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:                 |
|   | Respirable  |
|   | OSHA PEL Z3 (United States, 6/2016).                        |
|   | TWA: 10 mg/m <sup>3</sup> / (%SiO2+2) 8 hours. Form:        |
|   |   |
|   | TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:                   |
|   | Respirable  |
|   | OSHA PEL (United States, 5/2018).                           |
|   |   |
|   | United States Page: 8/20                                    |
|   | -   |

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# Section 8. Exposure controls/personal protection

| -   | •   |  |  |
|---|---|--|--|
|   |   |  | A: 50 μg/m³ 8 hours. Form: Respirable  |
|   |   | dust   |  |
| m-tolylidene diisocyanate   |   | None   |  |
|   | Key to abbreviations  |  |  |
| A = Acceptable Maximum P  |   | S  | = Potential skin absorption  |
| ACGIH = American Conference c<br>C = Ceiling Limit                        | f Governmental Industrial Hygienists.   | SR<br>SS   | <ul><li>Respiratory sensitization</li><li>Skin sensitization</li></ul>   |
| F = Fume  |   | STEL   | <ul> <li>Shiri sensuzation</li> <li>Short term Exposure limit values</li> </ul>  |
| IPEL = Internal Permissible Exp   | posure Limit  | TD   | = Total dust   |
| OSHA = Occupational Safety and  | d Health Administration.  | TLV  | = Threshold Limit Value  |
| R = Respirable<br>Z = OSHA 29 CFR 1910.12                                 | 00 Subpart 7 Taxia and Hazardaya Substances   | TWA  | = Time Weighted Average  |
|   | 00 Subpart Z - Toxic and Hazardous Substances   |  |  |
| Consult local authorities for   | · ·   |  |  |
| Recommended monitoring procedures   | atmosphere or biological monitoring n<br>the ventilation or other control measur  | nay be rec<br>res and/or<br>uld be ma<br>nents for                           | quired to determine the effectiveness of<br>the necessity to use respiratory<br>ade to appropriate monitoring standards.   |
| Appropriate engineering<br>controls<br>Environmental exposure<br>controls |   | rker expo<br>e engineer<br>ny lower e<br>ocess equ<br>environme<br>neering m | xplosive limits. Use explosion-proof<br>lipment should be checked to ensure<br>ental protection legislation. In some<br>odifications to the process equipment  |
| Individual protection measu   |   |  |  |
| Hygiene measures  | : Wash hands, forearms and face thoro<br>eating, smoking and using the lavator<br>Appropriate techniques should be use<br>Contaminated work clothing should no<br>contaminated clothing before reusing.<br>showers are close to the workstation I | y and at th<br>d to remo<br>t be allov<br>Ensure t                           | he end of the working period.<br>ove potentially contaminated clothing.<br>ved out of the workplace. Wash  |
| Eye/face protection   | : Chemical splash goggles.  |  |  |
| Skin protection   |   |  |  |
| Hand protection   | : Chemical-resistant, impervious gloves   | compluir   | a with an approved standard should be  |
|   | worn at all times when handling chem<br>necessary. Considering the parameter<br>during use that the gloves are still reta   | ical produ<br>ers specifi<br>aining thei<br>r any glov<br>nixtures, c        | acts if a risk assessment indicates this is<br>ed by the glove manufacturer, check<br>r protective properties. It should be<br>ve material may be different for different<br>consisting of several substances, the |
| Gloves  | : butyl rubber  |  |  |
|   |   |  |  |

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# Section 8. Exposure controls/personal protection

| Body protection        | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic 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    | <ul> <li>Persons with a history of asthma, allergies or chronic or recurrent respiratory disease<br/>should not be employed in any process in which this product is used.</li> </ul>  |

# Section 9. Physical and chemical properties

| <u>Appearance</u>                            |   |
|--|---|
| Physical state                               | : Liquid.   |
| Color  | : Black.  |
| Odor   | : Characteristic.                                   |
| Odor threshold                               | : Not available.                                    |
| 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 (solid, gas)                    | : Not available.                                    |
| Lower and upper explosive (flammable) limits | : Not available.                                    |
| Evaporation rate                             | : Not available.                                    |
| Vapor pressure                               | : Not available.                                    |
| Vapor density                                | : Not available.                                    |
| Relative density                             | : 1.6   |
| Density(lbs / gal)                           | : 13.35   |
| Solubility                                   | : Insoluble in the following materials: cold water. |
| Partition coefficient: n-<br>octanol/water   | : Not applicable.                                   |
| Viscosity                                    | : ₭inematic (40°C (104°F)): >21 mm²/s (>21 cSt)     |
| Volatility                                   | : 38% (v/v), 21.17% (w/w)                           |
| % Solid. (w/w)                               | : 78.83   |

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Product name KL4600 KOL-TAR URETHANE/COAL TAR

# 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.<br>Refer to protective measures listed in sections 7 and 8.  |
| Incompatible materials             | : Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water.<br>Uncontrolled exothermic reactions occur with amines and alcohols.   |
| Hazardous decomposition products   | : Depending on conditions, decomposition products may include the following materials:<br>Cyanate and isocyanate. carbon oxides nitrogen oxides halogenated compounds<br>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  |
|  | LD50 Dermal                     | Rabbit  | 10.206 g/kg             | -        |
|  | LD50 Oral                       | Rat     | 1.6 g/kg                | -        |
| 4-chloro- $\alpha$ , $\alpha$ , $\alpha$ -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 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.

Product name KL4600 KOL-TAR URETHANE/COAL TAR

# Section 11. Toxicological information

Carcinogen Classification code:

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

### Section 11. Toxicological information

| IARC: 1, 2A, 2B, 3, 4                         | _ |
|---|---|
| NTP: Known to be a human carcinogen: Reasonal | h |

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. <u>Specific target organ toxicity (single exposure)</u>

| Name  | Category   | Route of exposure | Target organs                   |
|---|------------|-------------------|---------------------------------|
| <b>x</b> ylene  | Category 3 | -                 | Respiratory tract<br>irritation |
| Talc, not containing asbestiform fibers   | Category 3 | -                 | Respiratory tract<br>irritation |
| Isocyanic acid, polymethylenepolyphenylene ester, polymer<br>with .alphahydroomegahydroxypoly[oxy(methyl-<br>1,2-ethanediyl)] | Category 3 | -                 | Respiratory tract irritation    |
| 4,4'-methylenediphenyl diisocyanate   | Category 3 | -                 | Respiratory tract<br>irritation |
| Isocyanic acid, polymethylenepolyphenylene ester  | Category 3 | -                 | Respiratory tract<br>irritation |
| heptan-2-one  | Category 3 | -                 | Narcotic effects                |
| 4-chloro-α,α,α-trifluorotoluene   | Category 3 | -                 | Respiratory tract<br>irritation |
| m-tolylidene diisocyanate   | Category 3 | -                 | Respiratory tract<br>irritation |

#### Specific target organ toxicity (repeated exposure)

| Name  | Category   | Route of exposure | Target organs      |
|---|------------|-------------------|--------------------|
| Isocyanic acid, polymethylenepolyphenylene ester, polymer<br>with .alphahydroomegahydroxypoly[oxy(methyl-<br>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: 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   |
|------------------------|--|
| xylene<br>ethylbenzene | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |
|                        |  |

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# Section 11. Toxicological information

### Information on the likely routes of exposure

### Potential acute health effects

| Potential acute health effe | <u>ects</u>   |
|-----------------------------|---|
| Eye contact                 | : Causes serious eye irritation.  |
| Inhalation                  | <ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma<br/>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/sym     | <u>iptoms</u>   |
| Eye contact                 | : Adverse symptoms may include the following:<br>pain or irritation   |
| Inhalation                  | watering<br>redness<br>Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing  |
| Skin contact                | <ul> <li>wheezing and breathing difficulties</li> <li>asthma</li> <li>reduced fetal weight</li> <li>increase in fetal deaths</li> <li>skeletal malformations</li> <li>Adverse symptoms may include the following:</li> </ul>  |
|                             | irritation<br>redness<br>dryness<br>cracking<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| Ingestion                   | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |
|                             | fects 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 irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, |
|                             | United States Page: 14/20   |

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### Section 11. Toxicological information

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.

|                                | contact.  |
|--------------------------------|---|
| <u>Short term exposure</u>     |   |
| Potential immediate<br>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<br>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/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts and<br>mists) (mg/<br>I) |
|---|------------------|-------------------|--------------------------------|----------------------------------|---|
| KL4600 KOL-TAR URETHANE/COAL TAR  | 9511.3           | 6330              | 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,<br>polymer with .alphahydroomegahydroxypoly[oxy<br>(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                             | N/A   |

Product name KL4600 KOL-TAR URETHANE/COAL TAR

# Section 12. Ecological information

### **Toxicity**

| Product/ingredient name   | Result                                 | Species | Exposure |
|---------------------------|--|---------|----------|
| diiron trioxide           | Acute EC50 >100 mg/l                   | Daphnia | 48 hours |
| heptan-2-one              | Acute LC50 131 mg/l                    | Fish    | 96 hours |
| ethylbenzene              | Acute LC50 150 to 200 mg/l Fresh water | Fish    | 96 hours |
| m-tolylidene diisocyanate | Acute EC50 12.5 mg/l                   | Daphnia | 48 hours |

#### Persistence and degradability

| Product/ingredient name   | Test              | Result                   |                  | Result         |   | Dose       |  | Inoculum |
|---|-------------------|--------------------------|------------------|----------------|---|------------|--|----------|
| heptan-2-one  | OECD 310          | 69 % - Readily - 28 days |                  | ly - 28 days - |   | -          |  |          |
| Product/ingredient name   | Aquatic half-life |                          | Photolysis       |                | Biodeg                                    | radability |  |          |
| xylene<br>heptan-2-one<br>ethylbenzene<br>m-tolylidene diisocyanate | -<br>-<br>-<br>-  |                          | -<br>-<br>-<br>- |                | Readily<br>Readily<br>Readily<br>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 inside the container. Do not cut, weld or grind used containers unless they have been

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

### Section 13. Disposal considerations

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

|                                | DOT             | IMDG                          | ΙΑΤΑ   |
|--------------------------------|-----------------|-------------------------------|--|
| UN number                      | UN1263          | UN1263                        | UN1263   |
| UN proper shipping<br>name     | PAINT           | PAINT                         | PAINT  |
| Transport hazard class (es)    | 3               | 3                             | 3  |
| Packing group                  |                 | Ш                             |  |
| Environmental hazards          | No.             | Yes.                          | Yes. The environmentally<br>hazardous substance mark is<br>not required. |
| Marine pollutant<br>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**

| 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 $\leq 5$ L or $\leq 5$ kg.  |

**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

#### United States

United States inventory (TSCA 8b) : At least one component is inactive.

### 

United States - TSCA 5(a)2 - Proposed significant new use rules:

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40 CFR 799.5089

Listed

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# Section 15. Regulatory information

| m-tolylidene diisocyanate |  | Listed                                  | 80 FR 2068, Jan<br>15, 2015 |
|---------------------------|--|---|-----------------------------|
| <u>SARA 302/304</u>       |  |   |                             |
| SARA 304 RQ               | : Not applicable.  |   |                             |
| Composition/information   | <u>n on ingredients</u>  |   |                             |
| No products were found.   |  |   |                             |
| <u>SARA 311/312</u>       |  |   |                             |
| Classification            | : FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>RESPIRATORY SENSITIZATION - Category<br>SKIN SENSITIZATION - Category 1<br>GERM CELL MUTAGENICITY - Category<br>CARCINOGENICITY - Category 1A<br>TOXIC TO REPRODUCTION - Category<br>SPECIFIC TARGET ORGAN TOXICITY<br>irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY<br>HNOC - Defatting irritant | gory 1<br>y 1<br>1B<br>(SINGLE EXPOSURE |                             |

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

| Name   | %           | Classification  |  |
|--|-------------|---|--|
| <b>x</b> ylene   | ≥10 - ≤20   | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3<br>ASPIRATION HAZARD - Category 1   |  |
| Pitch, coal tar, high-temp.  | ≥10 - ≤20   | GERM CELL MUTAGENICITY - Category 1B<br>CARCINOGENICITY - Category 1A<br>TOXIC TO REPRODUCTION - Category 1B<br>HNOC - Defatting irritant   |  |
| Talc, not containing asbestiform fibers  | ≥5.0 - ≤10  | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3   |  |
| Isocyanic acid,<br>polymethylenepolyphenylene<br>ester, polymer with .alphahydro-<br>.omegahydroxypoly[oxy(methyl-<br>1,2-ethanediyl)] | ≥1.0 - ≤5.0 | COMBUSTIBLE DUSTS<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>RESPIRATORY SENSITIZATION - Category 1A<br>SKIN SENSITIZATION - Category 1B<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED<br>EXPOSURE) - Category 2 |  |
| 4,4'-methylenediphenyl<br>diisocyanate   | ≥1.0 - ≤3.8 | ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2  |  |
|  |             | United States Page: 18/20   |  |

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# Section 15. Regulatory information

|  | -           |   |
|--|-------------|---|
|  |             | EYE IRRITATION - Category 2A<br>RESPIRATORY SENSITIZATION - Category 1A<br>SKIN SENSITIZATION - Category 1A |
|  |             | CARCINOGENICITY - Category 2  |
|  |             | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  |
|  |             | (Respiratory tract irritation) - Category 3   |
|  |             | SPECIFIC TARGET ORGAN TOXICITY (REPEATED  |
|  |             | EXPOSURE) - Category 2  |
| Isocyanic acid,                                      | ≥1.0 - ≤5.0 | ACUTE TOXICITY (inhalation) - Category 4  |
| polymethylenepolyphenylene                           |             | SKIN IRRITATION - Category 2  |
| 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 Olana   |             | 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)<br>(Narcotic effects) - Category 3                         |
|  |             | HNOC - Defatting irritant   |
| 4-chloro- $\alpha, \alpha, \alpha$ -trifluorotoluene | ≤1.8        | FLAMMABLE LIQUIDS - Category 3  |
|  | -1.0        | 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  |
|  | -1.0        | EXPOSURE) - Category 1  |
| m-tolylidene diisocyanate                            | <1.0        | ACUTE TOXICITY (inhalation) - Category 1  |
|  |             | SKIN IRRITATION - Category 2  |
|  |             | EYE IRRITATION - Category 2A<br>RESPIRATORY SENSITIZATION - Category 1A                                     |
|  |             | SKIN SENSITIZATION - Category 1A  |
|  |             | CARCINOGENICITY - Category 1B   |
|  |             | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  |
|  |             | (Respiratory tract irritation) - Category 3   |
|  |             |   |

### <u>SARA 313</u>

Chemical name

CAS number Concentration

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| ethylbenzene | 1330-20-7<br>101-68-8<br>9016-87-9<br>100-41-4<br>26471-62-5 | 10 - 30<br>1 - 5<br>1 - 5<br>0.1 - 1<br>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

MARNING: Cancer - www.P65Warnings.ca.gov.

# 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. 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<br>Date of previous issue<br>Organization that prepared<br>the SDS | bility : 3 Instability : 0<br>: 8/1/2020<br>: EHS   |
|--|---|
| Key to abbreviations   | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>UN = United Nations |

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

### <u>Disclaimer</u>

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