# SAFETY DATA SHEET



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

Date of revision 23 September 2019 Date of issue 23 September 2019

**Version 8** 

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

Product name : K&L KOLORANE PENETRATING SEALER

Product code : KL9129/01
Other means of : Not applicable.

identification

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

**Manufacturer** : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

Emergency telephone

number

(514) 645-1320 (Canada) 01-800-00-21-400 or + 52 55 5559 1588 (Mexico)

**Technical Phone Number**: 888-977-4762

# **SECTION 2: Hazards identification**

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION - Category 1C

EYE IRRITATION - Category 2A

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing

organs, respiratory system) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 23%

(Oral), 26.8% (Dermal), 26.1% (Inhalation)

**GHS label elements** 

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# SECTION 2: Hazards identification

**Hazard pictograms** 









Signal word

: Danger **Hazard statements** 

: H226 - Flammable liquid and vapor.

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H314 - Causes severe skin burns and eye damage.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 - May cause an allergic skin reaction. H360 - May damage fertility or the unborn child.

H351 - Suspected of causing cancer. H335 - May cause respiratory irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

(hearing organs, respiratory system)

#### **Precautionary statements**

**Prevention** 

: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P284 - Wear respiratory protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P260 -Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.

Response

: P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. P302 + P352 + P312 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. P337 + P313 -If eye irritation persists: Get medical attention.

**Storage Disposal**  : P405 - Store locked up.

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches. drowsiness and nausea and may lead to unconsciousness or death. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures. this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to

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#### Product name K&L KOLORANE PENETRATING SEALER

## SECTION 2: Hazards identification

atmospheric concentrations well below the OEL. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Emits toxic fumes when heated.

See toxicological information (Section 11)

# SECTION 3: Composition/information on ingredients

Substance/mixture

: Mixture

**Product name** 

: K&L KOLORANE PENETRATING SEALER

Other means of identification

: Not applicable.

| Ingredient name   | %            | CAS number |
|---|--------------|------------|
| oly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, polymer with | ≥20 - ≤48    | 9057-91-4  |
| 1,3-diisocyanatomethylbenzene                                     |              |            |
| xylene  | ≥20 - ≤26    | 1330-20-7  |
| Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether | ≥10 - ≤20    | 51617-66-4 |
| with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), polymer with   |              |            |
| 1,3-diisocyanatomethylbenzene                                     |              |            |
| Isocyanic acid, polymethylenepolyphenylene ester, polymer with    | ≥10 - ≤20    | 67815-87-6 |
| 1,2-ethanediamine, 2-methyloxirane and 1,2-propanediol            |              |            |
| ethylbenzene  | ≥1.0 - ≤4.6  | 100-41-4   |
| Solvent naphtha (petroleum), light aromatic                       | ≥1.0 - ≤3.9  | 64742-95-6 |
| 4,4'-methylenediphenyl diisocyanate                               | ≥0.10 - ≤2.4 | 101-68-8   |
| 1,2,4-trimethylbenzene  | ≥0.10 - ≤2.1 | 95-63-6    |
| Isocyanic acid, polymethylenepolyphenylene ester                  | ≤1.6         | 9016-87-9  |
| 4-isocyanatosulphonyltoluene                                      | <1.0         | 4083-64-1  |
| dibutylbis(dodecylthio)stannane                                   | <1.0         | 1185-81-5  |
| methylenediphenyl diisocyanate                                    | <1.0         | 26447-40-5 |
| toluene   | <1.0         | 108-88-3   |

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

#### **Description of necessary first aid measures**

Eye contact

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation

Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion

Ingestion

In the least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately mediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediat

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#### SECTION 4: First aid measures

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

**Skin contact**: Causes severe burns. Harmful in contact with skin. Defatting to the skin. May

cause an allergic skin reaction.

**Ingestion**: Harmful if swallowed.

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

See toxicological information (Section 11)

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate

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.

# **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides nitrogen oxides

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.

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## 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. Do not breathe 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.

# **SECTION 7: Handling and storage**

Precautions for safe handling

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# SECTION 7: Handling and storage

#### **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   |
|---|---|
| oly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, polymer with 1,3-diisocyanatomethylbenzene   | None.   |
| xylene  | NOM-010-STPS-2014 (Mexico, 4/2016).<br>STEL: 150 ppm 15 minutes.<br>TWA: 100 ppm 8 hours. |
| Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), polymer with 1,3-diisocyanatomethylbenzene | None.   |
| Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, 2-methyloxirane and 1,2-propanediol   | None.   |
| ethylbenzene  | NOM-010-STPS-2014 (Mexico, 4/2016).   |

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# SECTION 8: Exposure controls/personal protection

Solvent naphtha (petroleum), light aromatic

4,4'-methylenediphenyl diisocyanate

1,2,4-trimethylbenzene

Isocyanic acid, polymethylenepolyphenylene ester

4-isocyanatosulphonyltoluene dibutylbis(dodecylthio)stannane

methylenediphenyl diisocyanate

toluene

TWA: 20 ppm 8 hours.

None.

NOM-010-STPS-2014 (Mexico, 4/2016).

TWA: 0.005 ppm 8 hours.

NOM-010-STPS-2014 (Mexico, 4/2016).

TWA: 25 ppm 8 hours.

None. None.

NOM-010-STPS-2014 (Mexico, 4/2016).

Absorbed through skin.

TWA: 0.1 mg/m³, (as Sn) 8 hours. STEL: 0.2 mg/m³, (as Sn) 15 minutes.

NOM-010-STPS-2014 (Mexico, 4/2016).

TWA: 20 ppm 8 hours.

Key to abbreviations

= Ceiling Limit C

**IPEL** = Internal Permissible Exposure Limit STEL = Short term exposure limit TLV = Threshold Limit Value TWA = Time Weighted Average

#### Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** Skin protection **Hand protection** 

: Chemical splash goggles and face shield.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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#### Product name K&L KOLORANE PENETRATING SEALER

## SECTION 8: Exposure controls/personal protection

**Gloves** 

: nitrile neoprene

**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** 

: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.

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

#### **Appearance**

**Physical state** : Liquid. Colorless. Color Odor : Characteristic. Not available. **Odor threshold** : Not applicable. **Molecular weight** : Not available. **Melting point** : Not available. **Boiling point** : >37.78°C (>100°F) Flash point : Closed cup: 32°C (89.6°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

Lower and upper explosive (flammable) limits

Evaporation rate : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.03

Density ( lbs / gal ) : 8.6

**Solubility** : Insoluble in the following materials: cold water.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

**Volatility** : 38% (v/v), 32.194% (w/w)

% Solid. (w/w) : 67.806

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# **SECTION 10: Stability and reactivity**

Possibility of hazardous reactions

**Chemical stability** 

: Under normal conditions of storage and use, hazardous reactions will not occur.

: No specific test data related to reactivity available for this product or its ingredients.

**Conditions to avoid** : In a fire, hazardous decomposition products may be produced.

: The product is stable.

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

Reactivity

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

# **SECTION 11: Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name   | Result  | Species              | Dose                               | Exposure          |
|---|---|----------------------|------------------------------------|-------------------|
| Poly[oxy(methyl-1,2-ethanediyl)],<br>α-hydro-ω-hydroxy-, polymer<br>with<br>1,3-diisocyanatomethylbenzene | LD50 Oral   | Rat                  | 5000 mg/kg                         | -                 |
| xylene  | LD50 Dermal<br>LD50 Oral                          | Rabbit<br>Rat        | >1.7 g/kg<br>4.3 g/kg              | -                 |
| ethylbenzene  | LC50 Inhalation Vapor<br>LD50 Dermal<br>LD50 Oral | Rat<br>Rabbit<br>Rat | 17.8 mg/l<br>17.8 g/kg<br>3.5 g/kg | 4 hours<br>-<br>- |
| Solvent naphtha (petroleum), light aromatic   | LD50 Dermal                                       | Rabbit               | 3.48 g/kg                          | -                 |
| 4,4'-methylenediphenyl diisocyanate   | LD50 Oral<br>LD50 Oral                            | Rat<br>Rat           | 8400 mg/kg<br>9200 mg/kg           | -<br>-            |
| 1,2,4-trimethylbenzene  | LC50 Inhalation Vapor<br>LD50 Oral                | Rat<br>Rat           | 18000 mg/m³<br>5 g/kg              | 4 hours           |
| Isocyanic acid, polymethylenepolyphenylene ester  | LD50 Dermal                                       | Rabbit               | >9400 mg/kg                        | -                 |
| 4-isocyanatosulphonyltoluene  | LD50 Oral   | Rat<br>Rat           | 49 g/kg<br>2234 mg/kg              | -                 |
| dibutylbis(dodecylthio)   | LD50 Oral   | Rabbit               | >1000 mg/kg                        | -                 |
| toluene   | LC50 Inhalation Vapor<br>LD50 Dermal<br>LD50 Oral | Rat<br>Rabbit<br>Rat | 49 g/m³<br>8.39 g/kg<br>5580 mg/kg | 4 hours<br>-<br>- |

**Conclusion/Summary** 

: There are no data available on the mixture itself.

**Irritation/Corrosion** 

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#### **Product name K&L KOLORANE PENETRATING SEALER**

# **SECTION 11: Toxicological information**

| Product/ingredient name             | Result                   | Species | Score | Exposure           | Observation |
|-------------------------------------|--------------------------|---------|-------|--------------------|-------------|
| <b>x</b> ylene                      | Skin - Moderate irritant | Rabbit  |       | 24 hours 500<br>mg | -           |
| 4,4'-methylenediphenyl diisocyanate | Skin - Irritant          | Rabbit  | -     | -                  | -           |

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.
 Eyes : There are no data available on the mixture itself.
 Respiratory : There are no data available on the mixture itself.

**Sensitization** 

| Product/ingredient name             | Route of exposure | Species    | Result      |
|-------------------------------------|-------------------|------------|-------------|
| 4,4'-methylenediphenyl diisocyanate | skin              | Mouse      | Sensitizing |
| unoooyunato                         | Respiratory       | Guinea pig | Sensitizing |

#### **Conclusion/Summary**

Skin: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary** 

: There are no data available on the mixture itself.

**Carcinogenicity** 

| Product/ingredient name             | Result                     | Species | Dose                     | Exposure                    |
|-------------------------------------|----------------------------|---------|--------------------------|-----------------------------|
| 4,4'-methylenediphenyl diisocyanate | Positive - Inhalation - TC | Rat     | 0 to 6 mg/m <sup>3</sup> | 2 years; 5 days<br>per week |

#### **Conclusion/Summary**

: There are no data available on the mixture itself.

#### **Classification**

| Product/ingredient name    | OSHA | IARC | NTP |
|----------------------------|------|------|-----|
| vlene                      | -    | 3    | -   |
| ethylbenzene               | -    | 2B   | -   |
| 4,4'-methylenediphenyl     | -    | 3    | -   |
| diisocyanate               |      |      |     |
| Isocyanic acid,            | -    | 3    | -   |
| polymethylenepolyphenylene |      |      |     |
| ester                      |      |      |     |
| toluene                    | -    | 3    | -   |

#### **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)

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#### Product name K&L KOLORANE PENETRATING SEALER

# **SECTION 11: Toxicological information**

| Name   | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, polymer with 1,3-diisocyanatomethylbenzene   | Category 3 | Not applicable.   | Respiratory tract irritation |
| xylene   | Category 3 | Not applicable.   | Respiratory tract irritation |
| Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, ether with 2,2-bis(hydroxymethyl) -1,3-propanediol (4:1), polymer with 1,3-diisocyanatomethylbenzene | Category 3 | Not applicable.   | Respiratory tract irritation |
| Solvent naphtha (petroleum), light aromatic  | Category 3 | Not applicable.   | Narcotic effects             |
|  | Category 3 | Not applicable.   | Respiratory tract irritation |
| 4,4'-methylenediphenyl diisocyanate  | Category 3 | Not applicable.   | Respiratory tract irritation |
| 1,2,4-trimethylbenzene   | Category 3 | Not applicable.   | Respiratory tract irritation |
| Isocyanic acid, polymethylenepolyphenylene ester   | Category 3 | Not applicable.   | Respiratory tract irritation |
| 4-isocyanatosulphonyltoluene   | Category 3 | Not applicable.   | Respiratory tract            |
| methylenediphenyl diisocyanate   | Category 3 | Not applicable.   | Respiratory tract            |
| toluene  | Category 3 | Not applicable.   | Narcotic effects             |

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

| Name   | Category   | Route of exposure  | Target organs   |
|--|--|--|---|
| ethylbenzene 4,4'-methylenediphenyl diisocyanate Isocyanic acid, polymethylenepolyphenylene ester dibutylbis(dodecylthio)stannane methylenediphenyl diisocyanate toluene | Category 2 Category 2 Category 2 Category 1 Category 2 Category 2 Category 2 | Inhalation<br>Inhalation<br>Not determined<br>Not determined | hearing organs<br>respiratory system<br>Not determined<br>immune system<br>Not determined<br>Not determined |

#### **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, upper respiratory tract, skin, ears, eye, lens or cornea.

#### **Aspiration hazard**

| Name  | Result   |
|---|--|
| wylene ethylbenzene Solvent naphtha (petroleum), light aromatic | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |
| toluene   | ASPIRATION HAZARD - Category 1   |

#### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** 

: Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

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## **SECTION 11: Toxicological information**

Skin contact : Causes severe burns. Harmful in contact with skin. Defatting to the skin. May

cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

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**Eye contact** : Adverse symptoms may include the following:

pain 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:

pain or irritation

redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### 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 isocvanate 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. 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, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Short term exposure** 

**Potential immediate** 

effects

Potential delayed effects : There are no data available on the mixture itself.

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: There are no data available on the mixture itself.

#### Product name K&L KOLORANE PENETRATING SEALER

# **SECTION 11: Toxicological information**

Long term exposure

**Potential immediate** 

effects

: There are no data available on the mixture itself.

**Potential delayed effects** 

: There are no data available on the mixture itself.

Potential chronic health effects

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** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity**: May damage the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : May damage fertility.

#### **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<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|----------------------------------|--|
| <b>₹</b> &L KOLORANE PENETRATING SEALER                            | 887.2            | 1284.3            | N/A                            | 12.1                             | 1.6  |
| Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, polymer with | 500              | 1100              | N/A                            | 11                               | 1.5  |
| 1,3-diisocyanatomethylbenzene                                      |                  |                   |                                |                                  |  |
| xylene   | 4300             | 1100              | N/A                            | 11                               | 1.5  |
| ethylbenzene   | 3500             | 17800             | N/A                            | 17.8                             | 1.5  |
| Solvent naphtha (petroleum), light aromatic                        | 8400             | 3480              | N/A                            | N/A                              | N/A  |
| 4,4'-methylenediphenyl diisocyanate                                | 9200             | N/A               | N/A                            | 11                               | N/A  |
| 1,2,4-trimethylbenzene   | 5000             | N/A               | N/A                            | 18                               | 1.5  |
| Isocyanic acid, polymethylenepolyphenylene ester                   | 49000            | N/A               | N/A                            | N/A                              | 1.5  |
| 4-isocyanatosulphonyltoluene                                       | 2234             | N/A               | N/A                            | N/A                              | N/A  |
| dibutylbis(dodecylthio)stannane                                    | 500              | 1100              | N/A                            | N/A                              | N/A  |
| methylenediphenyl diisocyanate                                     | N/A              | N/A               | N/A                            | 11                               | 1.5  |
| toluene  | 5580             | 8390              | N/A                            | 49                               | N/A  |

# **SECTION 12: Ecological information**

#### **Toxicity**

| Product/ingredient name                     | Result                                 | Species | Exposure |
|---|--|---------|----------|
| ethylbenzene                                | Acute LC50 150 to 200 mg/l Fresh water | Fish    | 96 hours |
| Solvent naphtha (petroleum), light aromatic | Acute LC50 8.2 mg/l                    | Fish    | 96 hours |
| dibutylbis(dodecylthio)<br>stannane         | Acute EC50 0.11 mg/l                   | Daphnia | 48 hours |

#### Persistence and degradability

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# **SECTION 12: Ecological information**

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| <b>x</b> ylene          | -                 | -          | Readily          |
| ethylbenzene            | -                 | -          | Readily          |
| toluene                 | -                 | -          | Readily          |

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF         | Potential |
|-------------------------|--------|-------------|-----------|
| kylene                  | 3.16   | 7.4 to 18.5 | low       |
| ethylbenzene            | 3.15   | 79.43       | low       |
| 1,2,4-trimethylbenzene  | 3.63   | 120.23      | low       |
| dibutylbis(dodecylthio) | 3.11   | -           | low       |
| toluene                 | 2.73   | 8.32        | low       |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

#### **Disposal methods**

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

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

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

# **SECTION 14: Transport information**

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#### **Product name K&L KOLORANE PENETRATING SEALER**

# **SECTION 14: Transport information**

|                                   | <b>Mexico Classification</b> | IMDG            | IATA            |  |  |
|-----------------------------------|------------------------------|-----------------|-----------------|--|--|
| UN number                         | UN1263                       | UN1263          | UN1263          |  |  |
| UN proper shipping name           | PAINT                        | PAINT           | PAINT           |  |  |
| Transport hazard class(es)        | 3                            | 3               | 3               |  |  |
| Packing group                     | III                          | III             | III             |  |  |
| Environmental hazards             | No.                          | No.             | No.             |  |  |
| Marine<br>pollutant<br>substances | Not applicable.              | Not applicable. | Not applicable. |  |  |
| Product RQ (lbs)                  | Not applicable.              | Not applicable. | Not applicable. |  |  |
| RQ substances                     | Not applicable.              | Not applicable. | Not applicable. |  |  |

#### **Additional information**

Mexico : None identified.IMDG : None identified.IATA : None identified.

Special precautions for user :

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

# **SECTION 15: Regulatory information**

#### **Mexico**

Classification

Flammability: 3 Health: 3 Reactivity: 1

#### **International regulations**

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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## **SECTION 16: Other information**

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

Health: 3 \* Flammability: 3 Physical hazards: 1

(\*) - Chronic

effects

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

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

Date of previous issue : 8/9/2019

Organization that prepared

the MSDS

: 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 = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships.

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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

#### **Disclaimer**

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

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