

# SAFETY DATA SHEET

B65B11

## Section 1. Identification

**Product name** : COROTHANE® I - COAL TAR Moisture Cure Urethane  
Black

**Product code** : B65B11

**Other means of identification** : Not available.

**Product type** : Liquid.

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

Paint or paint related material.

**Manufacturer** : THE SHERWIN-WILLIAMS COMPANY  
101 W. Prospect Avenue  
Cleveland, OH 44115

**Emergency telephone number of the company** : US / Canada: (800) 424-9300  
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

**Product Information Telephone Number** : US / Canada: (800) 524-5979  
Mexico: Not Available

**Transportation Emergency Telephone Number** : US / Canada: (800) 424-9300  
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
RESPIRATORY SENSITIZATION - Category 1  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1A  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
ASPIRATION HAZARD - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 21.7% (oral), 28.2% (dermal), 22.9% (inhalation)

### GHS label elements

**Hazard pictograms**



**Signal word** : Danger

**Date of issue/Date of revision** : 4/18/2024 **Date of previous issue** : 1/22/2024

B65B11 COROTHANE® I - COAL TAR Moisture Cure Urethane  
Black

**Version** : 20.01 1/25

SHW-85-NA-GHS-US

## Section 2. Hazards identification

- Hazard statements**
- : Flammable liquid and vapor.
  - May be fatal if swallowed and enters airways.
  - Causes skin irritation.
  - May cause an allergic skin reaction.
  - Causes serious eye irritation.
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - May cause respiratory irritation.
  - May cause cancer.
  - Causes damage to organs through prolonged or repeated exposure. (lungs)

### Precautionary statements

- Prevention**
- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

- Response**
- : 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 SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. 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.

- 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.

- Supplemental label elements**
- DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst.
- Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

## Section 2. Hazards identification

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

### CAS number/other identifiers

Ingredient name	% by weight	CAS number
Talc	≥10 - ≤25	14807-96-6
Refined Coal Tar Pitch	≥10 - ≤25	65996-93-2
Iron Oxide	≥10 - ≤25	1309-37-1
Diphenylmethane Diisocyanate Polymer	≤10	9016-87-9
Crystalline Silica, respirable powder	≤10	14808-60-7
Barium Sulfate	≤10	7727-43-7
Heavy Aromatic Naphtha	≤5	64742-94-5
Methyl Isobutyl Ketone	≤5	108-10-1
Xylene, mixed isomers	≤5	1330-20-7
4, 4'-Diphenylmethane Diisocyanate	≤3	101-68-8
Light Aromatic Hydrocarbons	≤3	64742-95-6
Prepolymer based on aromatic polyisocyanate	≤3	127821-00-5
trimethylbenzene	≤3	25551-13-7
p-Toluenesulfonyl Isocyanate	≤3	4083-64-1
Ethylbenzene	<1	100-41-4
Naphthalene	<1	91-20-3
1,2,4-Trimethylbenzene	<1	95-63-6
1,3,5-Trimethylbenzene	<1	108-67-8
Diphenylmethane Diisocyanate	≤0.3	26447-40-5
Cumene	≤0.3	98-82-8
1,2,3-Trimethylbenzene	≤0.3	526-73-8
Light Aliphatic Hydrocarbon	≤0.3	64742-47-8

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 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** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. In the event of any complaints or symptoms, avoid further exposure.

## Section 4. First aid measures

- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
wheezing and breathing difficulties  
asthma
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### 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 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. 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. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Remark** : Flammable liquid.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

- 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.

## 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. 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 swallow. 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.

- 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 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Talc	14807-96-6	<b>NIOSH REL (United States, 10/2020).</b> TWA: 2 mg/m <sup>3</sup> 10 hours. Form: Respirable fraction
Refined Coal Tar Pitch	65996-93-2	<b>ACGIH TLV (United States, 1/2023).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction <b>ACGIH TLV (United States, 1/2023). [Coal tar pitch volatiles as benzene soluble aerosol]</b> TWA: 0.2 mg/m <sup>3</sup> , (as benzene soluble



## Section 8. Exposure controls/personal protection

Iron Oxide	1309-37-1	<p>aerosol) 8 hours.  <b>OSHA PEL (United States, 5/2018).</b> [Coal tar pitch volatiles (benzene soluble fraction), anthracene, BaP, phenanthrene, acridine, chrysene, pyrene]  TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: Benzene soluble  <b>NIOSH REL (United States, 10/2020).</b> [COAL TAR PITCH VOLATILES]  TWA: 0.1 mg/m<sup>3</sup> 10 hours. Form: Cyclohexane-extract  <b>NIOSH REL (United States, 10/2020).</b>  TWA: 5 mg/m<sup>3</sup>, (as Fe) 10 hours. Form: Dust and fumes  <b>ACGIH TLV (United States, 1/2023).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction  TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust  None.  <b>OSHA PEL Z3 (United States, 6/2016).</b>  TWA: 250 mppcf / (%SiO<sub>2</sub>+5) 8 hours. Form: Respirable  TWA: 10 mg/m<sup>3</sup> / (%SiO<sub>2</sub>+2) 8 hours. Form: Respirable  <b>OSHA PEL (United States, 5/2018).</b> [Silica, crystalline]  TWA: 50 µg/m<sup>3</sup> 8 hours. Form: Respirable dust  <b>ACGIH TLV (United States, 1/2023).</b> [Silica, crystalline]  TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction  <b>NIOSH REL (United States, 10/2020).</b> [SILICA, CRYSTALLINE (AS RESPIRABLE DUST)]  TWA: 0.05 mg/m<sup>3</sup> 10 hours. Form: respirable dust  <b>ACGIH TLV (United States, 1/2023).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction  <b>NIOSH REL (United States, 10/2020).</b>  TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction  TWA: 10 mg/m<sup>3</sup> 10 hours. Form: Total  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction  TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust  None.  <b>ACGIH TLV (United States, 1/2023).</b>  TWA: 20 ppm 8 hours.  STEL: 75 ppm 15 minutes.  <b>NIOSH REL (United States, 10/2020).</b>  TWA: 50 ppm 10 hours.</p>
Diphenylmethane Diisocyanate Polymer Crystalline Silica, respirable powder	9016-87-9 14808-60-7	
Barium Sulfate	7727-43-7	
Heavy Aromatic Naphtha Methyl Isobutyl Ketone	64742-94-5 108-10-1	

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Xylene, mixed isomers	1330-20-7	<p>TWA: 205 mg/m<sup>3</sup> 10 hours.          STEL: 75 ppm 15 minutes.          STEL: 300 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>          TWA: 100 ppm 8 hours.          TWA: 410 mg/m<sup>3</sup> 8 hours.  <b>OSHA PEL (United States, 5/2018).</b>  <b>[Xylenes (o-, m-, p-isomers)]</b>          TWA: 100 ppm 8 hours.          TWA: 435 mg/m<sup>3</sup> 8 hours.  <b>ACGIH TLV (United States, 1/2023).</b> [p-xylene and mixtures containing p-xylene]  <b>Ototoxicant.</b>          TWA: 20 ppm 8 hours.  <b>ACGIH TLV (United States, 1/2023).</b>          TWA: 0.005 ppm 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>          TWA: 0.05 mg/m<sup>3</sup> 10 hours.          TWA: 0.005 ppm 10 hours.          CEIL: 0.2 mg/m<sup>3</sup> 10 minutes.          CEIL: 0.02 ppm 10 minutes.  <b>OSHA PEL (United States, 5/2018).</b>          CEIL: 0.02 ppm          CEIL: 0.2 mg/m<sup>3</sup></p>
4, 4'-Diphenylmethane Diisocyanate	101-68-8	<p>None.          None.  <b>ACGIH TLV (United States, 1/2023).</b>  <b>[trimethyl benzene, isomers]</b>          TWA: 10 ppm 8 hours.          None.  <b>ACGIH TLV (United States, 1/2023).</b>  <b>Ototoxicant.</b>          TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>          TWA: 100 ppm 10 hours.          TWA: 435 mg/m<sup>3</sup> 10 hours.          STEL: 125 ppm 15 minutes.          STEL: 545 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>          TWA: 100 ppm 8 hours.          TWA: 435 mg/m<sup>3</sup> 8 hours.</p>
Light Aromatic Hydrocarbons Prepolymer based on aromatic polyisocyanate trimethylbenzene	64742-95-6 127821-00-5 25551-13-7	<p>None.          None.  <b>ACGIH TLV (United States, 1/2023).</b>  <b>[trimethyl benzene, isomers]</b>          TWA: 10 ppm 8 hours.          None.  <b>ACGIH TLV (United States, 1/2023).</b>  <b>Ototoxicant.</b>          TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>          TWA: 100 ppm 10 hours.          TWA: 435 mg/m<sup>3</sup> 10 hours.          STEL: 125 ppm 15 minutes.          STEL: 545 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>          TWA: 100 ppm 8 hours.          TWA: 435 mg/m<sup>3</sup> 8 hours.</p>
p-Toluenesulfonyl Isocyanate Ethylbenzene	4083-64-1 100-41-4	<p>None.          None.  <b>ACGIH TLV (United States, 1/2023).</b>  <b>Ototoxicant.</b>          TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>          TWA: 100 ppm 10 hours.          TWA: 435 mg/m<sup>3</sup> 10 hours.          STEL: 125 ppm 15 minutes.          STEL: 545 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>          TWA: 100 ppm 8 hours.          TWA: 435 mg/m<sup>3</sup> 8 hours.</p>
Naphthalene	91-20-3	<p><b>ACGIH TLV (United States, 1/2023).</b>  <b>Absorbed through skin.</b>          TWA: 10 ppm 8 hours.          TWA: 52 mg/m<sup>3</sup> 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>          TWA: 10 ppm 10 hours.          TWA: 50 mg/m<sup>3</sup> 10 hours.          STEL: 15 ppm 15 minutes.          STEL: 75 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>          TWA: 10 ppm 8 hours.          TWA: 50 mg/m<sup>3</sup> 8 hours.</p>
1,2,4-Trimethylbenzene	95-63-6	<p><b>NIOSH REL (United States, 10/2020).</b>          TWA: 25 ppm 10 hours.          TWA: 125 mg/m<sup>3</sup> 10 hours.  <b>ACGIH TLV (United States, 1/2023).</b></p>



## Section 8. Exposure controls/personal protection

1,3,5-Trimethylbenzene	108-67-8	TWA: 10 ppm 8 hours. <b>ACGIH TLV (United States, 1/2023).</b> <b>[trimethyl benzene, isomers]</b> TWA: 10 ppm 8 hours. <b>NIOSH REL (United States, 10/2020).</b> TWA: 25 ppm 10 hours. TWA: 125 mg/m <sup>3</sup> 10 hours.
Diphenylmethane Diisocyanate Cumene	26447-40-5 98-82-8	None. <b>ACGIH TLV (United States, 1/2023).</b> TWA: 5 ppm 8 hours. <b>NIOSH REL (United States, 10/2020).</b> <b>Absorbed through skin.</b> TWA: 50 ppm 10 hours. TWA: 245 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 5/2018).</b> <b>Absorbed through skin.</b> TWA: 50 ppm 8 hours. TWA: 245 mg/m <sup>3</sup> 8 hours.
1,2,3-Trimethylbenzene	526-73-8	<b>ACGIH TLV (United States, 1/2023).</b> <b>[trimethyl benzene, isomers]</b> TWA: 10 ppm 8 hours. <b>NIOSH REL (United States, 10/2020).</b> TWA: 25 ppm 10 hours. TWA: 125 mg/m <sup>3</sup> 10 hours.
Light Aliphatic Hydrocarbon	64742-47-8	<b>ACGIH TLV (United States, 1/2023).</b> <b>[Kerosene as total hydrocarbon vapor]</b> <b>Absorbed through skin.</b> TWA: 200 mg/m <sup>3</sup> , (as total hydrocarbon vapor) 8 hours.

### Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
talc (none asbestiform)	14807-96-6	<b>CA British Columbia Provincial (Canada, 6/2022).</b> Notes: the value is for particulate matter containing no asbestos and less than 1% crystalline silica. TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable <b>CA Quebec Provincial (Canada, 6/2022).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable dust. <b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate <b>CA Ontario Provincial (Canada, 6/2019).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate matter. TWA: 2 f/cc 8 hours. <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: respirable fraction
Coal tar pitch	65996-93-2	<b>CA Alberta Provincial (Canada, 6/2018).</b> <b>[Coal tar pitch volatiles as benzene solubles]</b> 8 hrs OEL: 0.2 mg/m <sup>3</sup> , (as benzene solubles) 8 hours.

## Section 8. Exposure controls/personal protection

Isocyanuric acid polymethylene polyphenyl isocyanate	9016-87-9	<p><b>CA British Columbia Provincial (Canada, 6/2022). [Coal tar pitch volatiles as benzene-soluble aerosol]</b> TWA: 0.2 mg/m<sup>3</sup>, (as benzene-soluble aerosol) 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019). [Coal tar pitch volatiles as benzene soluble aerosol]</b> TWA: 0.2 mg/m<sup>3</sup>, (as benzene soluble aerosol) 8 hours.</p> <p><b>CA Quebec Provincial (Canada, 6/2022).</b> TWA/EV: 0.2 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 0.6 mg/m<sup>3</sup>, (measured as benzene soluble aerosol) 15 minutes. TWA: 0.2 mg/m<sup>3</sup>, (measured as benzene soluble aerosol) 8 hours.</p> <p><b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 0.07 mg/m<sup>3</sup> 8 hours. 8 hrs OEL: 0.005 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds]</b> Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours.</p>
Quartz	14808-60-7	<p><b>CA Quebec Provincial (Canada, 6/2022). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.</b></p> <p><b>CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable]</b> TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable</p> <p><b>CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz]</b> TWA/EV: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable dust.</p> <p><b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate</p> <p><b>CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)]</b> TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate matter.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: respirable fraction</p>
Methyl isobutyl ketone	108-10-1	<p><b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 205 mg/m<sup>3</sup> 8 hours. 8 hrs OEL: 50 ppm 8 hours. 15 min OEL: 75 ppm 15 minutes. 15 min OEL: 307 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA British Columbia Provincial (Canada, 6/2022).</b> TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes.</p>

## Section 8. Exposure controls/personal protection

Xylene	1330-20-7	<p><b>CA Ontario Provincial (Canada, 6/2019).</b> TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 6/2022).</b> TWA EV: 20 ppm 8 hours. STEV: 75 ppm 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 75 ppm 15 minutes. TWA: 50 ppm 8 hours.</p> <p><b>CA Alberta Provincial (Canada, 6/2018).</b> <b>[Dimethylbenzene (o,m &amp; p isomers)]</b> 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m<sup>3</sup> 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m &amp; p isomers)]</b> TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 6/2022).</b> <b>[Xylene (o-,m-,p- isomers)]</b> TWA EV: 100 ppm 8 hours. TWA EV: 434 mg/m<sup>3</sup> 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b> <b>[Xylene (o-, m-, p-isomers)]</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)]</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.</p>
4, 4'-Diphenylmethane Diisocyanate	101-68-8	<p><b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 0.005 ppm 8 hours. 8 hrs OEL: 0.05 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 6/2022). Inhalation sensitizer.</b> TWA: 0.005 ppm 8 hours. C: 0.01 ppm</p> <p><b>CA Quebec Provincial (Canada, 6/2022).</b> <b>Skin sensitizer. Inhalation sensitizer.</b> TWA EV: 0.005 ppm 8 hours. TWA EV: 0.051 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 0.015 ppm 15 minutes. TWA: 0.005 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b> <b>[Isocyanates, organic compounds]</b> Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours.</p>
Trimethylbenzene	25551-13-7	<p><b>CA Alberta Provincial (Canada, 6/2018).</b> <b>[Trimethyl benzene (mixed isomers)]</b> 8 hrs OEL: 123 mg/m<sup>3</sup> 8 hours. 8 hrs OEL: 25 ppm 8 hours.</p>

## Section 8. Exposure controls/personal protection

p-Toluenesulfonyl Isocyanate	4083-64-1	<p><b>CA British Columbia Provincial (Canada, 6/2022).</b> [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours.</p> <p><b>CA Quebec Provincial (Canada, 6/2022).</b> [Trimethyl benzene (mixture of isomers)] <b>Skin sensitizer. Inhalation sensitizer.</b> TWA: 25 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b> [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> [Trimethyl benzene mixed isomer] STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.</p>
Ethylbenzene	100-41-4	<p><b>CA Quebec Provincial (Canada, 6/2022).</b> [Isocyanate oligomers] <b>Skin sensitizer. Inhalation sensitizer.</b></p> <p><b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 100 ppm 8 hours. 8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours. 15 min OEL: 543 mg/m<sup>3</sup> 15 minutes. 15 min OEL: 125 ppm 15 minutes.</p> <p><b>CA British Columbia Provincial (Canada, 6/2022).</b> TWA: 20 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b> TWA: 20 ppm 8 hours.</p> <p><b>CA Quebec Provincial (Canada, 6/2022).</b> TWA: 20 ppm 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.</p>
Naphthalene	91-20-3	<p><b>CA Alberta Provincial (Canada, 6/2018).</b> <b>Absorbed through skin.</b> 15 min OEL: 15 ppm 15 minutes. 8 hrs OEL: 10 ppm 8 hours. 8 hrs OEL: 52 mg/m<sup>3</sup> 8 hours. 15 min OEL: 79 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA British Columbia Provincial (Canada, 6/2022).</b> <b>Absorbed through skin.</b> TWA: 10 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b> <b>Absorbed through skin.</b> TWA: 10 ppm 8 hours.</p> <p><b>CA Quebec Provincial (Canada, 6/2022).</b> <b>Absorbed through skin.</b> TWA: 10 ppm 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> <b>Absorbed through skin.</b> STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.</p>
Diphenylmethane Diisocyanate	26447-40-5	<p><b>CA British Columbia Provincial (Canada, 6/2022).</b> [Diisocyanates, not elsewhere specified, NOS] TWA: 0.005 ppm 8 hours.</p>

## Section 8. Exposure controls/personal protection

Cumene	98-82-8	<p>C: 0.01 ppm  <b>CA Ontario Provincial (Canada, 6/2019).</b>  <b>[Isocyanates, organic compounds]</b>  Ceiling Limit: 0.02 ppm  TWA: 0.005 ppm 8 hours.  <b>CA Quebec Provincial (Canada, 6/2022).</b>  <b>[Isocyanate oligomers] Skin sensitizer.</b>  <b>Inhalation sensitizer.</b>  <b>CA Alberta Provincial (Canada, 6/2018).</b>  8 hrs OEL: 50 ppm 8 hours.  8 hrs OEL: 246 mg/m<sup>3</sup> 8 hours.  <b>CA British Columbia Provincial (Canada, 6/2022).</b>  TWA: 25 ppm 8 hours.  STEL: 75 ppm 15 minutes.  <b>CA Ontario Provincial (Canada, 6/2019).</b>  TWA: 50 ppm 8 hours.  <b>CA Quebec Provincial (Canada, 6/2022).</b>  TWAEV: 50 ppm 8 hours.  TWAEV: 246 mg/m<sup>3</sup> 8 hours.  <b>CA Saskatchewan Provincial (Canada, 7/2013).</b>  STEL: 74 ppm 15 minutes.  TWA: 50 ppm 8 hours.</p>
Petroleum refining, hydrotreated light distillate	64742-47-8	<p><b>CA British Columbia Provincial (Canada, 6/2022).</b> <b>[Kerosene/Jet fuels as total hydrocarbon vapour] Absorbed through skin. Notes: Application restricted to conditions in which there are negligible aerosol exposures.</b>  TWA: 200 mg/m<sup>3</sup>, (as total hydrocarbon vapour) 8 hours.  <b>CA Alberta Provincial (Canada, 6/2018).</b>  <b>[Kerosene/Jet fuels as total hydrocarbon vapour] Absorbed through skin.</b>  8 hrs OEL: 200 mg/m<sup>3</sup>, (as total hydrocarbon vapour) 8 hours.  <b>CA Ontario Provincial (Canada, 6/2019).</b>  <b>Absorbed through skin.</b>  TWA: 200 mg/m<sup>3</sup>, (as total hydrocarbon vapour) 8 hours.</p>

### Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Refined Coal Tar Pitch	65996-93-2	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> <b>[Coal tar pitch volatiles (Benzene solubles)]</b> TWA: 0.2 mg/m <sup>3</sup> , (as soluble aerosol in Benzene) 8 hours. Form: soluble aerosol
Crystalline Silica, respirable powder	14808-60-7	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Methyl Isobutyl Ketone	108-10-1	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 50 ppm 8 hours. STEL: 75 ppm 15 minutes.
Xylene, mixed isomers	1330-20-7	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> <b>[Xylenes (mixed)]</b>

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4, 4'-Diphenylmethane Diisocyanate	101-68-8	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. <b>NOM-010-STPS-2014 (Mexico, 4/2016).</b>
trimethylbenzene	25551-13-7	TWA: 0.005 ppm 8 hours. <b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> <b>[Trimethyl benzene, mixed isomers]</b>
Naphthalene	91-20-3	TWA: 25 ppm 8 hours. <b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> <b>Absorbed through skin.</b>
Cumene	98-82-8	TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. <b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 50 ppm 8 hours.

### Biological exposure indices (United States)

Ingredient name	Exposure indices
Refined Coal Tar Pitch	<b>ACGIH BEI (United States, 1/2023)</b> <b>[polycyclic aromatic hydrocarbons]</b> BEI: 2.5 µg/l, 1-hydroxypyrene [in urine]. Sampling time: end of shift at end of workweek. BEI: Nonquantitative: Biological monitoring should be considered for this compound based on the review; however, a specific BEI® could not be determined due to insufficient data., 3-hydroxybenzo(a)pyrene [in urine]. Sampling time: end of shift at end of workweek.
Methyl Isobutyl Ketone	<b>ACGIH BEI (United States, 1/2023)</b> BEI: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.
Xylene, mixed isomers	<b>ACGIH BEI (United States, 1/2023) [xylenes (technical or commercial grade)]</b> BEI: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	<b>ACGIH BEI (United States, 1/2023)</b> BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Naphthalene	<b>ACGIH BEI (United States, 1/2023)</b> BEI: Nonquantitative: Biological monitoring should be considered for this compound based on the review; however, a specific BEI® could not be determined due to insufficient data., 1-naphthol + 2-naphthol [(sample not specified)]. Sampling time: end of shift.

### Biological exposure indices (Canada)

No exposure indices known.

### Biological exposure indices (Mexico)



## Section 8. Exposure controls/personal protection

Ingredient name	Exposure indices
Methyl Isobutyl Ketone	<b>Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)</b> BEI: 2 mg/L, MIBK [in urine]. Sampling time: at the end of the work shift.
Xylene, mixed isomers	<b>Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [xylenes (technical or commercial grade)]</b> BEI: 1.5 g/g creatinine, methyl hippuric acids [in urine]. Sampling time: at the end of the work shift.

**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** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

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

**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.

## Section 8. Exposure controls/personal protection

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

**Physical state** : Liquid.  
**Color** : Black.  
**Odor** : Not available.  
**Odor threshold** : Not available.  
**pH** : Not applicable.  
**Melting point/freezing point** : Not available.  
**Boiling point, initial boiling point, and boiling range** : 113°C (235.4°F)  
**Flash point** : Closed cup: 41°C (105.8°F) [Pensky-Martens Closed Cup]  
**Evaporation rate** : 1.62 (butyl acetate = 1)  
**Flammability** : Flammable liquid.  
**Lower and upper explosion limit/flammability limit** : Lower: 0.7%  
Upper: 7.5%  
**Vapor pressure** : 2.1 kPa (16 mm Hg)  
**Relative vapor density** : 3.45 [Air = 1]  
**Relative density** : 1.52  
**Solubility(ies)** :

Media	Result
cold water	Not soluble

**Partition coefficient: n-octanol/water** : Not applicable.  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : Not available.  
**Viscosity** : Kinematic (40°C (104°F)): <20.5 mm<sup>2</sup>/s (<20.5 cSt)  
**Molecular weight** : Not applicable.  
**Heat of combustion** : 14.969 kJ/g

## 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** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

## Section 10. Stability and reactivity

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Diphenylmethane Diisocyanate Polymer	LC50 Inhalation Vapor	Rat	490 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
4, 4'-Diphenylmethane Diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
Light Aromatic Hydrocarbons trimethylbenzene	LD50 Oral	Rat	8400 mg/kg	-
	LD50 Oral	Rat	8970 mg/kg	-
p-Toluenesulfonyl Isocyanate	LD50 Oral	Rat	2234 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1400 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Talc	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Diphenylmethane Diisocyanate Polymer	Eyes - Mild irritant	Rabbit	-	100 mg	-
Heavy Aromatic Naphtha	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
4, 4'-Diphenylmethane Diisocyanate	Eyes - Moderate irritant	Rabbit	-	100 mg	-

## Section 11. Toxicological information

Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
p-Toluenesulfonyl Isocyanate	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Naphthalene	Skin - Mild irritant	Rabbit	-	495 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 0.05 MI	-
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
Talc	-	3	-
Refined Coal Tar Pitch	-	1	-
Iron Oxide	-	3	-
Diphenylmethane	-	3	-
Diisocyanate Polymer			
Crystalline Silica, respirable powder	+	1	Known to be a human carcinogen.
Methyl Isobutyl Ketone	-	2B	-
Xylene, mixed isomers	-	3	-
4, 4'-Diphenylmethane	-	3	-
Diisocyanate			
Ethylbenzene	-	2B	-
Naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Diphenylmethane Diisocyanate Polymer	Category 3	-	Respiratory tract irritation
Heavy Aromatic Naphtha	Category 3	-	Narcotic effects
Methyl Isobutyl Ketone	Category 3	-	Respiratory tract irritation
Xylene, mixed isomers	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
4, 4'-Diphenylmethane Diisocyanate	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
Light Aromatic Hydrocarbons	Category 3	-	Respiratory tract irritation
p-Toluenesulfonyl Isocyanate	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
Ethylbenzene	Category 3	-	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
1,3,5-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Diphenylmethane Diisocyanate	Category 3	-	Respiratory tract irritation
Cumene	Category 3	-	Narcotic effects
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Talc	Category 1	inhalation	lungs
Diphenylmethane Diisocyanate Polymer	Category 2	-	-
Crystalline Silica, respirable powder	Category 1	inhalation	-
Methyl Isobutyl Ketone	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
4, 4'-Diphenylmethane Diisocyanate	Category 2	-	-
Light Aromatic Hydrocarbons	Category 2	-	-
Ethylbenzene	Category 2	-	-
Diphenylmethane Diisocyanate	Category 2	-	-

### Aspiration hazard

Name	Result
Heavy Aromatic Naphtha	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Naphthalene	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1

## Section 11. Toxicological information

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

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

**Inhalation** : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
wheezing and breathing difficulties  
asthma

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**General** : Causes damage to organs through prolonged or repeated exposure. 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** : No known significant effects or critical hazards.

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

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

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

### Numerical measures of toxicity

#### Acute toxicity estimates



## Section 11. Toxicological information

Route	ATE value
Oral	13108.59 mg/kg
Dermal	49102.47 mg/kg
Inhalation (gases)	35416.61 ppm
Inhalation (vapors)	56.34 mg/l
Inhalation (dusts and mists)	9.1 mg/l

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Barium Sulfate	Acute EC50 634 mg/l Fresh water	Crustaceans - <i>Cypris subglobosa</i>	48 hours
	Acute EC50 32 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Methyl Isobutyl Ketone	Acute LC50 505000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	33 days
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - <i>Palaemonetes pugio</i>	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
trimethylbenzene	Acute LC50 5600 µg/l Marine water	Crustaceans - <i>Palaemonetes pugio</i>	48 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - <i>Skeletonema costatum</i>	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - <i>Skeletonema costatum</i>	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
Naphthalene	Acute LC50 4200 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute EC50 1.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 2350 µg/l Marine water	Crustaceans - <i>Palaemonetes pugio</i>	48 hours
	Acute LC50 213 µg/l Fresh water	Fish - <i>Melanotaenia fluviatilis</i> - Larvae	96 hours
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - <i>Uca pugnax</i> - Adult	3 weeks
1,2,4-Trimethylbenzene	Chronic NOEC 1.5 mg/l Fresh water	Fish - <i>Oreochromis mossambicus</i>	60 days
	Acute LC50 4910 µg/l Marine water	Crustaceans - <i>Elasmopus pecteniscus</i> - Adult	48 hours
	Acute LC50 7720 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
1,3,5-Trimethylbenzene	Acute LC50 13000 µg/l Marine water	Crustaceans - <i>Cancer magister</i> - Zoea	48 hours
	Acute LC50 12520 µg/l Fresh water	Fish - <i>Carassius auratus</i>	96 hours
Cumene	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Acute EC50 7.4 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Light Aliphatic Hydrocarbon	Acute LC50 2200 µg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	4 days

### Persistence and degradability

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## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl Isobutyl Ketone	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily
Ethylbenzene	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Heavy Aromatic Naphtha	-	99 to 5780	High
Xylene, mixed isomers	-	8.1 to 25.9	Low
4, 4'-Diphenylmethane	-	200	Low
Diisocyanate	-		
Light Aromatic Hydrocarbons	-	10 to 2500	High
Naphthalene	-	36.5 to 168	Low
1,2,4-Trimethylbenzene	-	243	Low
1,3,5-Trimethylbenzene	-	161	Low
Diphenylmethane	-	200	Low
Diisocyanate	-		
Cumene	-	35.48	Low
1,2,3-Trimethylbenzene	-	194.98	Low

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : 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.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT

## Section 14. Transport information

Transport hazard class(es)	3 	3 	3 	3 	3 
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	No.
Additional information	<p>This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.</p> <p><b>ERG No.</b> 128</p>	<p>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).</p> <p><b>ERG No.</b> 128</p>	-  <b>ERG No.</b> 128	-	<p><b>Emergency schedules</b> F-E, S-E</p>

**Special precautions for user :** Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

**Transport in bulk according to IMO instruments :** Not available.

**Proper shipping name :** Not available.

## Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: Toluene-2,4-diisocyanate (max.)

### [SARA 313](#)

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet, where applicable.

### [California Prop. 65](#)

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### [International regulations](#)

#### [Montreal Protocol](#)

Not listed.

#### [Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

### [International lists](#)

: **Australia inventory (AIIIC)**: Not determined.  
**China inventory (IECSC)**: Not determined.  
**Japan inventory (CSCL)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Korea inventory (KECI)**: Not determined.  
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.  
**Philippines inventory (PICCS)**: Not determined.  
**Taiwan Chemical Substances Inventory (TCSI)**: Not determined.  
**Thailand inventory**: Not determined.  
**Turkey inventory**: Not determined.  
**Vietnam inventory**: Not determined.

## Section 16. Other information

### [Hazardous Material Information System \(U.S.A.\)](#)

Health	*	3
Flammability		2
Physical hazards		0

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.

**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 SDSs 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.

### [Procedure used to derive the classification](#)

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
RESPIRATORY SENSITIZATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

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Black

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## Section 16. Other information

### History

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**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

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.