

# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 19 May 2020

Version 8

## Section 1. Identification

**Product name** : AMERCOAT 450H CURE PRE-THINNED  
**Product code** : 00387273  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

**Product use** : Professional applications, Used by spraying.  
**Use of the substance/ mixture** : Coating.  
**Uses advised against** : Not applicable.

**Supplier** : PPG Canada Inc.  
5676 Timberlea Blvd  
Mississauga ON L4W 4M6  
Canada  
+1 905-629-7999

PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272

**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 or + 52 55 5559 1588 (Mexico)

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

## Section 2. Hazard identification

**Classification of the substance or mixture** :  FLAMMABLE LIQUIDS - Category 3  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
Health Hazards Not Otherwise Classified - Category 1

### GHS label elements

## Section 2. Hazard identification

**Hazard pictograms****Signal word**

: Danger

**Hazard statements**

:  Flammable liquid and vapor.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure. (hearing organs)  
Prolonged or repeated contact may dry skin and cause irritation.

**Precautionary statements****Prevention**

:  Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor. Wash thoroughly after handling.

**Response**

:  If exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it 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 in a well-ventilated place. Keep container tightly closed.

**Disposal**

:  Not applicable.

**Supplemental label elements**

: Moisture-sensitive material. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.5% (Inhalation)

## Section 3. Composition/information on ingredients

|                               |                                  |
|-------------------------------|----------------------------------|
| Substance/mixture             | : Mixture                        |
| Product name                  | : AMERCOAT 450H CURE PRE-THINNED |
| Other means of identification | : Not available.                 |

### CAS number/other identifiers

| Ingredient name                             | Synonyms       | % (w/w)    | CAS number |
|---------------------------------------------|----------------|------------|------------|
| Hexamethylene diisocyanate, oligomers.      | Not available. | 30 - 60*   | 28182-81-2 |
| n-butyl acetate                             | Not available. | 10 - 30*   | 123-86-4   |
| xylene                                      | Not available. | 10 - 30*   | 1330-20-7  |
| ethylbenzene                                | Not available. | 1 - 5*     | 100-41-4   |
| Solvent naphtha (petroleum), light aromatic | Not available. | 0.5 - 1.5* | 64742-95-6 |

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

**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

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

### Description of necessary first aid measures

|                     |                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.                                        |
| <b>Inhalation</b>   | : 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. |
| <b>Skin contact</b> | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.                                             |
| <b>Ingestion</b>    | : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.                                                          |

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

#### Potential acute health effects

|                     |                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Causes serious eye irritation.                                                                                                              |
| <b>Inhalation</b>   | : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| <b>Skin contact</b> | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.                                                         |
| <b>Ingestion</b>    | : Can cause central nervous system (CNS) depression.                                                                                          |

#### Over-exposure signs/symptoms

|                    |                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------|
| <b>Eye contact</b> | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
|--------------------|--------------------------------------------------------------------------------------------|

## Section 4. First-aid measures

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Ingestion** : No specific data.

### 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.
- 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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Special provisions** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

## Section 7. Handling and storage

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems 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 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                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hexamethylene diisocyanate, oligomers. | <b>IPEL (PPG).</b><br>TWA: 0.5 mg/m <sup>3</sup><br>STEL: 1 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                  |
| n-butyl acetate                        | <b>CA Alberta Provincial (Canada, 6/2018).</b><br><b>Skin sensitizer.</b><br>15 min OEL: 950 mg/m <sup>3</sup> 15 minutes.<br>15 min OEL: 200 ppm 15 minutes.<br>8 hrs OEL: 713 mg/m <sup>3</sup> 8 hours.<br>8 hrs OEL: 150 ppm 8 hours.<br><b>CA British Columbia Provincial (Canada, 5/2019).</b><br>TWA: 20 ppm 8 hours.<br><b>CA Ontario Provincial (Canada, 6/2019).</b> |

## Section 8. Exposure controls/personal protection

xylene

STEL: 200 ppm 15 minutes.  
TWA: 150 ppm 8 hours.  
**CA Quebec Provincial (Canada, 7/2019).**  
STEV: 950 mg/m<sup>3</sup> 15 minutes.  
STEV: 200 ppm 15 minutes.  
TWAEV: 713 mg/m<sup>3</sup> 8 hours.  
TWAEV: 150 ppm 8 hours.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
STEL: 200 ppm 15 minutes.  
TWA: 150 ppm 8 hours.

**CA Alberta Provincial (Canada, 6/2018).**  
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.  
8 hrs OEL: 100 ppm 8 hours.  
**CA British Columbia Provincial (Canada, 5/2019).**  
STEL: 150 ppm 15 minutes.  
TWA: 100 ppm 8 hours.  
**CA Quebec Provincial (Canada, 7/2019).**  
STEV: 651 mg/m<sup>3</sup> 15 minutes.  
STEV: 150 ppm 15 minutes.  
TWAEV: 434 mg/m<sup>3</sup> 8 hours.  
TWAEV: 100 ppm 8 hours.  
**CA Ontario Provincial (Canada, 6/2019).**  
STEL: 150 ppm 15 minutes.  
TWA: 100 ppm 8 hours.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
STEL: 150 ppm 15 minutes.  
TWA: 100 ppm 8 hours.

ethylbenzene

**CA Alberta Provincial (Canada, 6/2018).**  
15 min OEL: 543 mg/m<sup>3</sup> 15 minutes.  
15 min OEL: 125 ppm 15 minutes.  
8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.  
8 hrs OEL: 100 ppm 8 hours.  
**CA British Columbia Provincial (Canada, 5/2019).**  
TWA: 20 ppm 8 hours.  
**CA Ontario Provincial (Canada, 6/2019).**  
TWA: 20 ppm 8 hours.  
**CA Quebec Provincial (Canada, 7/2019).**  
STEV: 543 mg/m<sup>3</sup> 15 minutes.  
STEV: 125 ppm 15 minutes.  
TWAEV: 434 mg/m<sup>3</sup> 8 hours.  
TWAEV: 100 ppm 8 hours.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
STEL: 125 ppm 15 minutes.  
TWA: 100 ppm 8 hours.

Solvent naphtha (petroleum), light aromatic

None.

Consult local authorities for acceptable exposure limits.

## Section 8. Exposure controls/personal protection

- Recommended monitoring procedures** : 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** : 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.
- Gloves** : butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : 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.                                                      |
| Color                                        | : Colorless.                                                   |
| Odor                                         | : Characteristic.                                              |
| Odor threshold                               | : Not available.                                               |
| pH                                           | : Not available.                                               |
| Melting point                                | : Not available.                                               |
| Boiling point                                | : >37.78°C (>100°F)                                            |
| Flash point                                  | : Closed cup: 27°C (80.6°F)                                    |
| Auto-ignition temperature                    | : Not available.                                               |
| Decomposition temperature                    | : Not available.                                               |
| Flammability (solid, gas)                    | : Not available.                                               |
| Lower and upper explosive (flammable) limits | : Not available.                                               |
| Evaporation rate                             | : Not available.                                               |
| Vapor pressure                               | : Not available.                                               |
| Vapor density                                | : Not available.                                               |
| Relative density                             | : 1                                                            |
| Density ( lbs / gal )                        | : 8.35                                                         |
| Solubility                                   | : Insoluble in the following materials: cold water.            |
| Partition coefficient: n-octanol/water       | : Not available.                                               |
| Viscosity                                    | : Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt) |
| Volatility                                   | : 56% (v/v), 49.044% (w/w)                                     |
| % Solid. (w/w)                               | : 50.956                                                       |

## Section 10. Stability and reactivity

|                                    |                                                                                                                                                                    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.                                                                       |
| Chemical stability                 | : The product is stable.                                                                                                                                           |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                  |
| Conditions to avoid                | : In a fire, hazardous decomposition products may be produced.<br>Refer to protective measures listed in sections 7 and 8.                                         |
| Incompatible materials             | : Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.       |
| Hazardous decomposition products   | : 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 |
|---------------------------------------------|-----------------------|--------------|--------------|----------|
| Hexamethylene diisocyanate, oligomers.      | LD50 Dermal           | Rabbit       | >2000 mg/kg  | -        |
| n-butyl acetate                             | LD50 Oral             | Rat - Female | >2500 mg/kg  | -        |
|                                             | LC50 Inhalation Vapor | Rat          | >21.1 mg/l   | 4 hours  |
| xylene                                      | LC50 Inhalation Vapor | Rat          | 2000 ppm     | 4 hours  |
|                                             | LD50 Dermal           | Rabbit       | >17600 mg/kg | -        |
| ethylbenzene                                | LD50 Oral             | Rat          | 10.768 g/kg  | -        |
|                                             | LD50 Dermal           | Rabbit       | >1.7 g/kg    | -        |
| Solvent naphtha (petroleum), light aromatic | LD50 Oral             | Rat          | 4.3 g/kg     | -        |
|                                             | LD50 Dermal           | Rat          | 17.8 mg/l    | 4 hours  |
|                                             | LD50 Oral             | Rabbit       | 17.8 g/kg    | -        |
|                                             | LD50 Dermal           | Rat          | 3.5 g/kg     | -        |
|                                             | LD50 Dermal           | Rabbit       | 3.48 g/kg    | -        |
|                                             | LD50 Oral             | Rat          | 8400 mg/kg   | -        |

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

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene                  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |

#### 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

- 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

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

#### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| xylene                  | -    | 3    | -   |
| ethylbenzene            | -    | 2B   | -   |

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

## Section 11. Toxicological information

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

### Specific target organ toxicity (single exposure)

| Name                                        | Category   | Route of exposure | Target organs                |
|---------------------------------------------|------------|-------------------|------------------------------|
| Hexamethylene diisocyanate, oligomers.      | Category 3 | -                 | Respiratory tract irritation |
| n-butyl acetate                             | Category 3 | -                 | Narcotic effects             |
| xylene                                      | Category 3 | -                 | Respiratory tract irritation |
| Solvent naphtha (petroleum), light aromatic | Category 3 | -                 | Respiratory tract irritation |
|                                             | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Name         | Category   | Route of exposure | Target organs  |
|--------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | -                 | hearing organs |

**Target organs** : Contains material which causes damage to the following organs: brain, central nervous system (CNS).  
Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, ears, eye, lens or cornea.

### Aspiration hazard

| Name                                        | Result                         |
|---------------------------------------------|--------------------------------|
| xylene                                      | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                                | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), light aromatic | 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. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### 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  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

## Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Ingestion** : No specific data.

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

- Conclusion/Summary** : There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. 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** : There are no data available on the mixture itself.
- Potential delayed effects** : There are no data available on the mixture itself.

### Long term exposure

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

### Potential chronic health 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** : 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**

| Product/ingredient name                     | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| AMERCOAT 450H CURE PRE-THINNED              | 4081         | 2933.1         | N/A                      | 16.4                       | 2.2                                 |
| Hexamethylene diisocyanate, oligomers.      | 2500         | 2500           | N/A                      | 11                         | 1.5                                 |
| n-butyl acetate                             | 10768        | N/A            | N/A                      | N/A                        | N/A                                 |
| 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                                 |

**Section 12. Ecological information****Toxicity**

| Product/ingredient name                     | Result                                 | Species                         | Exposure |
|---------------------------------------------|----------------------------------------|---------------------------------|----------|
| Hexamethylene diisocyanate, oligomers.      | Acute EC50 >1000 mg/l                  | Algae - scenedesmus subspicatus | 72 hours |
|                                             | Acute EC50 >100 mg/l                   | Daphnia - daphnia magna         | 48 hours |
| n-butyl acetate                             | Acute LC50 >100 mg/l                   | Fish - Danio rerio (zebra fish) | 96 hours |
| ethylbenzene                                | Acute LC50 18 mg/l                     | Fish                            | 96 hours |
|                                             | 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 |

**Persistence and degradability**

| Product/ingredient name | Test               | Result                   | Dose | Inoculum |
|-------------------------|--------------------|--------------------------|------|----------|
| n-butyl acetate         | TEPA and OECD 301D | 83 % - Readily - 28 days | -    | -        |

| Product/ingredient name                | Aquatic half-life | Photolysis | Biodegradability |
|----------------------------------------|-------------------|------------|------------------|
| Hexamethylene diisocyanate, oligomers. | -                 | -          | Not readily      |
| n-butyl acetate                        | -                 | -          | Readily          |
| xylene                                 | -                 | -          | Readily          |
| ethylbenzene                           | -                 | -          | Readily          |

**Bioaccumulative potential**

| Product/ingredient name                | LogP <sub>ow</sub> | BCF         | Potential |
|----------------------------------------|--------------------|-------------|-----------|
| Hexamethylene diisocyanate, oligomers. | -                  | 3.2         | low       |
| n-butyl acetate                        | 1.78               | -           | low       |
| xylene                                 | 3.16               | 7.4 to 18.5 | low       |
| ethylbenzene                           | 3.15               | 79.43       | low       |

**Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

## Section 13. Disposal considerations

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

|                             | TDG             | 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 pollutant substances | Not applicable. | Not applicable. | Not applicable. |

### Additional information

**TDG** : 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.

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

**Proof of classification statement** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

## Section 15. Regulatory information

### [National Inventory List](#)

Canada inventory ( DSL ) : All components are listed or exempted.

## Section 16. Other information

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

Health : 3 \* Flammability : 3 Physical hazards : 0

(\* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

### [National Fire Protection Association \(U.S.A.\)](#)

Health : 3 Flammability : 3 Instability : 0

Date of issue/Date of revision 19 May 2020

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.

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