



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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**Revision date:** 05.20.2026

### Duratite 1175

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** Duratite 1175

**Product code:** DT1175

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** ROOF COATING SYSTEM - Single Component Urethane

**Uses Advised Against:** Not determined or not applicable.

**Reasons Why Uses Advised Against:** Not determined or not applicable.

##### Manufacturer or Supplier Details

###### Manufacturer:

###### United States

Rhino Linings Corporation

1001 Ed Rutherford Road

Greenville, TX 75402

800-422-2603

www.rhinolinings.com

##### Emergency Telephone Number:

###### North America

CHEMTREC

800-424-9300 (24/7)

#### SECTION 2: Hazard(s) Identification

##### GHS Classification:

Flammable liquids, category 3

Acute toxicity (inhalation), category 4

Acute toxicity (dermal), category 4

Skin irritation, category 2

Eye irritation, category 2A

Respiratory sensitization, category 1

Skin sensitization, category 1

Germ cell mutagenicity, category 1B

Carcinogenicity, category 1B

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Specific target organ toxicity - repeated exposure, category 1

Aspiration hazard, category 1

Chronic aquatic hazard, category 2

##### Label elements

###### Hazard Pictograms:

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**Signal Word:** Danger

### Hazard statements:

- H226 Flammable liquid and vapor
- H332 Harmful if inhaled (Dusts/Mists)
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 May cause an allergic skin reaction
- H340 May cause genetic defects.
- H350 May cause cancer.
- H335 May cause respiratory irritation
- H372 Causes damage to organs through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways
- H411 Toxic to aquatic life with long lasting effects

### Precautionary Statements:

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical, ventilating, and lighting equipment.
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe dust, fumes, gas, mist, vapors or spray.
- P264 Wash any exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing must not be allowed out of the workplace
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P284 In case of inadequate ventilation wear respiratory protection.
- P273 Avoid release to the environment
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.
- P331 Do NOT induce vomiting
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with shower.
- P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
- P333+P313 If skin irritation or rash occurs: Get medical advice or attention.
- P363 Wash contaminated clothing before reuse
- P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or physician.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313 If eye irritation persists: Get medical advice or attention.

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P308+P313 If exposed or concerned: Get medical advice or attention.  
P370+P378 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish  
P391 Collect spillage  
P314 Get medical advice/attention if you feel unwell  
P403+P233 Store in a well-ventilated place. Keep container tightly closed  
P405 Store locked up  
P403+P235 Store in a well-ventilated place. Keep cool  
P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

### Hazards Not Otherwise Classified:

CONTAINS ISOCYANATES. Inhalation of isocyanate mists or vapors may cause respiratory irritation, breathlessness, chest discomfort and reduced pulmonary function. Overexposure well above the PEL may result in bronchitis, bronchial spasms and pulmonary edema. Long-term exposure to isocyanates has been reported to cause lung damage, including reduced lung function which may be permanent. Acute or chronic overexposure to isocyanates may cause sensitization in some individuals, resulting in allergic respiratory reactions including wheezing, shortness of breath and difficulty breathing. Animal tests and other research indicate that skin contact with mdi may play a role in causing respiratory sensitization.

AQUATIC CLASSIFICATION (Aquatic Chronic 2 – H411) indicates potential harm to aquatic environments if released. It does not meet criteria for classification as a marine pollutant under transport regulations (IMDG). Proper disposal practices are required—do not discharge into drains, soil, or water bodies. See Section 13 for disposal guidance.

## SECTION 3: Composition/Information on Ingredients

| Identification            | Name                                                                                                                                     | Weight % |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|
| CAS Number:<br>9016-87-9  | Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | 15-25    |
| CAS Number:<br>101-68-8   | 4,4'-methylenediphenyl diisocyanate                                                                                                      | 15-25    |
| CAS Number:<br>26447-40-5 | Diphenylmethane diisocyanate                                                                                                             | 1-5      |
| CAS Number:<br>25322-69-4 | Polypropylene glycol                                                                                                                     | 10-20    |
| CAS Number:<br>1330-20-7  | Xylene                                                                                                                                   | 10-20    |
| CAS Number:<br>98-82-8    | Cumene                                                                                                                                   | 0.1-1    |
| CAS Number:<br>100-41-4   | Ethylbenzene                                                                                                                             | 1-5      |
| CAS Number:<br>7429-90-5  | Aluminum powder (stabilized)                                                                                                             | 15-25    |
| CAS Number:<br>64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | 1-5      |

### Additional Information:

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Specific chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

## SECTION 4: First Aid Measures

### Description of First Aid Measures

#### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

#### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

#### After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

#### After Eye Contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

#### After Swallowing:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

### Most Important Symptoms and Effects, Both Acute and Delayed

#### Acute Symptoms and Effects:

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Inhalation exposure may cause allergy, asthma symptoms or breathing difficulties. Symptoms may include cough, chronic phlegm, shortness of breath, wheezing and chest tightness. Symptoms may be delayed.

Product is flammable. Exposure to sources of ignition may cause physical injury.

#### Delayed Symptoms and Effects:

Exposure may cause cancer. Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of pulmonary edema may be delayed.

Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of exposure may be delayed.

Exposure may cause genetic defects. Effects are dependent on exposure (dose, concentration, contact time).

Causes damage to organs through prolonged or repeated exposure. Effects are dependent on exposure

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(dose, concentration, contact time).

### Immediate Medical Attention and Special Treatment

#### Specific Treatment:

If respiratory symptoms persist, seek medical attention.

Skin/eye burns require immediate treatment.

#### Notes for the Doctor:

Treat symptomatically.

## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

#### Unsuitable Extinguishing Media:

Do not use water jet.

### Specific Hazards During Fire-Fighting:

Flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

### Special Protective Equipment for Firefighters:

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

### Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

## SECTION 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective

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clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and Storage

### Precautions for Safe Handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10). Storage temperature: 16 - 27°C (60 - 80°F)

## SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

### Occupational Exposure Limit Values:

| Country (Legal Basis) | Substance                                    | Identifier | Permissible concentration                                 |
|-----------------------|----------------------------------------------|------------|-----------------------------------------------------------|
| OSHA                  | 4,4'-methylenediphenyl diisocyanate          | 101-68-8   | PEL Ceiling: 0.2 mg/m <sup>3</sup> (0.02 ppm)             |
|                       | Diphenylmethane diisocyanate                 | 26447-40-5 | PEL Ceiling: 0.2 mg/m <sup>3</sup> (0.02 ppm)             |
|                       | Cumene                                       | 98-82-8    | 8-Hour TWA-PEL: 245 mg/m <sup>3</sup> (50 ppm)            |
|                       | Ethylbenzene                                 | 100-41-4   | 8-Hour TWA-PEL: 435 mg/m <sup>3</sup> (100 ppm)           |
|                       | Xylene                                       | 1330-20-7  | 8-Hour TWA: 435 mg/m <sup>3</sup> (100 ppm)               |
|                       | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA-PEL: 15 mg/m <sup>3</sup> (total dust)         |
|                       | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (respirable fraction) |
|                       | Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | TWA: 400 mg/m <sup>3</sup> (100 ppm)                      |
| NIOSH                 | 4,4'-methylenediphenyl diisocyanate          | 101-68-8   | REL-TWA: 0.05 mg/m <sup>3</sup> ([0.005 ppm] up to 10 hr) |
|                       | 4,4'-methylenediphenyl diisocyanate          | 101-68-8   | Ceiling Limit: 0.2 mg/m <sup>3</sup> ([0.02 ppm] 10 min)  |
|                       | 4,4'-methylenediphenyl diisocyanate          | 101-68-8   | IDLH: 75 mg/m <sup>3</sup>                                |
|                       | Diphenylmethane diisocyanate                 | 26447-40-5 | Ceiling Limit: 0.2 mg/m <sup>3</sup> ([0.020 ppm] 10 min) |
|                       | Diphenylmethane diisocyanate                 | 26447-40-5 | IDLH: 75 mg/m <sup>3</sup>                                |

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| Country (Legal Basis)     | Substance                                    | Identifier | Permissible concentration                                                              |
|---------------------------|----------------------------------------------|------------|----------------------------------------------------------------------------------------|
|                           | Diphenylmethane diisocyanate                 | 26447-40-5 | REL-TWA: 0.05 mg/m <sup>3</sup> ([0.005 ppm] 10 hr)                                    |
|                           | Cumene                                       | 98-82-8    | REL-TWA: 245 mg/m <sup>3</sup> (50 ppm [10-hour workday])                              |
|                           | Cumene                                       | 98-82-8    | IDLH: 900 ppm                                                                          |
|                           | Ethylbenzene                                 | 100-41-4   | REL-TWA: 435 mg/m <sup>3</sup> (100 ppm [10-hr])                                       |
|                           | Ethylbenzene                                 | 100-41-4   | 15-Minute STEL: 545 mg/m <sup>3</sup> (125 ppm)                                        |
|                           | Ethylbenzene                                 | 100-41-4   | IDLH: 800 ppm                                                                          |
|                           | Xylene                                       | 1330-20-7  | IDLH: 900 ppm                                                                          |
|                           | Xylene                                       | 1330-20-7  | 15-Minute STEL: 655 mg/m <sup>3</sup> (150 ppm)                                        |
|                           | Xylene                                       | 1330-20-7  | REL-TWA: 435 mg/m <sup>3</sup> (100 ppm [up to 10 hr])                                 |
|                           | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA: 10 mg/m <sup>3</sup> (Total dust [up to 10 hr])                            |
|                           | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA: 5 mg/m <sup>3</sup> (Respirable [ up to 10 hr])                            |
|                           | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA: 5 mg/m <sup>3</sup> (Pyro powders and welding fumes, as Al [ up to 10 hr]) |
|                           | Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | REL-TWA: 350 mg/m <sup>3</sup> ([up to 10 hr] for Stoddard Solvent)                    |
|                           | Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | Ceiling Limit: 1800 mg/m <sup>3</sup> ([15 min] for Stoddard Solvent)                  |
|                           | Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | IDLH: 1000 ppm                                                                         |
| ACGIH                     | 4,4'-methylenediphenyl diisocyanate          | 101-68-8   | 8-Hour TWA: 0.005 ppm                                                                  |
|                           | Diphenylmethane diisocyanate                 | 26447-40-5 | 8-Hour TWA: 0.005 ppm                                                                  |
|                           | Cumene                                       | 98-82-8    | 8-Hour TWA: 5 ppm                                                                      |
|                           | Ethylbenzene                                 | 100-41-4   | 8-Hour TWA: 20 ppm                                                                     |
|                           | Xylene                                       | 1330-20-7  | 8-Hour TWA: 20 ppm                                                                     |
|                           | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA: 1 mg/m <sup>3</sup> (respirable fraction)                                  |
|                           | Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | 8-Hour TWA: 100 ppm (for Stoddard Solvent)                                             |
| United States(California) | 4,4'-methylenediphenyl diisocyanate          | 101-68-8   | 8-Hour TWA-PEL: 0.051 mg/m <sup>3</sup> (0.005 ppm)                                    |
|                           | Diphenylmethane diisocyanate                 | 26447-40-5 | 8-Hour TWA-PEL: 0.051 mg/m <sup>3</sup> (0.005 ppm)                                    |
|                           | Cumene                                       | 98-82-8    | 8-Hour TWA: 245 mg/m <sup>3</sup> (50 ppm)                                             |
|                           | Ethylbenzene                                 | 100-41-4   | 8-Hour TWA-PEL: 435 mg/m <sup>3</sup> (100 ppm)                                        |
|                           | Ethylbenzene                                 | 100-41-4   | 15-Minute STEL: 545 mg/m <sup>3</sup> (125 ppm)                                        |
|                           | Xylene                                       | 1330-20-7  | Ceiling Limit: 300 ppm                                                                 |
|                           | Xylene                                       | 1330-20-7  | 15-Minute STEL: 655 mg/m <sup>3</sup> (150 ppm)                                        |

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| Country (Legal Basis) | Substance                                    | Identifier | Permissible concentration                                                  |
|-----------------------|----------------------------------------------|------------|----------------------------------------------------------------------------|
|                       | Xylene                                       | 1330-20-7  | 8-Hour TWA-PEL: 435 mg/m <sup>3</sup> (100 ppm)                            |
|                       | Xylene                                       | 1330-20-7  | PEL Ceiling: 300 ppm                                                       |
|                       | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (respirable fraction)                  |
|                       | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA-PEL: 10 mg/m <sup>3</sup> (total dust)                          |
|                       | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (Pyro powders)                         |
|                       | Aluminum powder (stabilized)                 | 7429-90-5  | 8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (Welding fumes)                        |
|                       | Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | STEL: 1800 mg/m <sup>3</sup> (400 ppm)                                     |
|                       | Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | 8-Hour TWA-PEL: 1600 mg/m <sup>3</sup> ([400 ppm] Rubber solvent, naphtha) |
| WEEL                  | Polypropylene glycol                         | 25322-69-4 | 8-Hour TWA: 10 mg/m <sup>3</sup> (Aerosol)                                 |

#### Biological Limit Values:

| Country (Legal Basis) | Substance    | Identifier | Determinant                                   | Specimen            | Sampling time | Permissible limits |
|-----------------------|--------------|------------|-----------------------------------------------|---------------------|---------------|--------------------|
| ACGIH                 | Ethylbenzene | 100-41-4   | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | End of shift. | 0.15 g/g           |
|                       | Xylene       | 1330-20-7  | Methylhippuric acids                          | Creatinine in urine | End of shift. | 1.5 g/g            |

#### Information on Monitoring Procedures:

Not determined or not applicable.

#### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

#### Personal Protection Equipment

##### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

##### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. 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. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

##### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure

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limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| <b>Appearance</b>                              | Silver/Grey Liquid               |
| <b>Odor</b>                                    | Solvent-like Odor                |
| <b>Odor threshold</b>                          | Not determined or not available. |
| <b>pH</b>                                      | No Test Data Available           |
| <b>Melting point/freezing point</b>            | No Test Data Available           |
| <b>Initial boiling point/range</b>             | No Test Data Available           |
| <b>Flash point (closed cup)</b>                | >38°C (>100°F)                   |
| <b>Evaporation rate</b>                        | Not determined or not available. |
| <b>Flammability (solid, gas)</b>               | No Test Data Available           |
| <b>Upper flammability/explosive limit</b>      | No Test Data Available           |
| <b>Lower flammability/explosive limit</b>      | No Test Data Available           |
| <b>Vapor pressure</b>                          | 5.1 mmHg                         |
| <b>Vapor density</b>                           | No Test Data Available           |
| <b>Density</b>                                 | 8.8 lbs/gal (Liquid)             |
| <b>Relative density</b>                        | 1.06 @ 25°C (77°F)               |
| <b>Solubilities</b>                            | Reacts with water                |
| <b>Partition coefficient (n-octanol/water)</b> | Not determined or not available. |
| <b>Auto/Self-ignition temperature</b>          | No Test Data Available           |
| <b>Decomposition temperature</b>               | Not determined or not available. |
| <b>Dynamic viscosity</b>                       | 200 cPs @ 25°C (77°F)            |
| <b>Kinematic viscosity</b>                     | Not determined or not available. |
| <b>Explosive properties</b>                    | No Test Data Available           |
| <b>Oxidizing properties</b>                    | Not determined or not available. |

## SECTION 10: Stability and Reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical Stability:

Stable under recommended handling and storage conditions.

### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.  
Hazardous polymerization may occur.

### Conditions to Avoid:

Keep from any possible contact with water. Extremes of temperature and direct sunlight. Storage near to

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reactive materials. Heat, flames and sparks.

**Incompatible Materials:**

Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals. Chlorinated compounds.  
Water. Amines. Copper.

**Hazardous Decomposition Products:**

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides.

### SECTION 11: Toxicological Information

**Acute Toxicity**

**Assessment:**

Harmful if inhaled.

Harmful in contact with skin.

**Product Data:** No data available.

**Substance Data:**

| Name                                                                                                                                     | Route          | Result                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | oral           | LD50 Rat: 4900 mg/kg                                |
|                                                                                                                                          | dermal         | LD50 Rabbit: >9400 mg/kg                            |
|                                                                                                                                          | Inhalation ATE | LC50 Rat: 11 mg/L (4 hr [vapor])                    |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | oral           | LD50 Rat: > 5000 mg/kg                              |
|                                                                                                                                          | inhalation     | LC50 Rat: 368 mg/m <sup>3</sup> (4 hr [aerosol])    |
|                                                                                                                                          | dermal         | LD50 Rabbit: >7940 mg/kg                            |
| Diphenylmethane diisocyanate                                                                                                             | Inhalation ATE | LC50 Rat: 11 mg/L (4 hr [Vapor])                    |
|                                                                                                                                          | oral           | LD50 Rat: >2000 mg/kg                               |
| Cumene                                                                                                                                   | oral           | LD50 Rat: 2700 mg/kg                                |
|                                                                                                                                          | dermal         | LD50 Rabbit: > 3160 mg/kg                           |
|                                                                                                                                          | inhalation     | LC50 Rat: 10 mg/L (7 hr [Vapour])                   |
| Ethylbenzene                                                                                                                             | inhalation     | LC50 Rat: 17.8 mg/L (4 hr [vapor])                  |
|                                                                                                                                          | oral           | LD50 Rat: 3500 mg/kg                                |
|                                                                                                                                          | dermal         | LD50 Rabbit: 15,400 mg/kg                           |
| Xylene                                                                                                                                   | Dermal ATE     | LD50 Rabbit: 1100 mg/kg                             |
|                                                                                                                                          | Inhalation ATE | LC50 Rat: 11 mg/L (4 h [vapor])                     |
|                                                                                                                                          | oral           | LD50 Rat: 3523 mg/kg                                |
| Aluminum powder (stabilized)                                                                                                             | oral           | LD50 Rat: 15,900 mg/kg                              |
|                                                                                                                                          | inhalation     | LC50 Rat: >5.09 mg/L (4 hr [Aerosol; read-across])  |
| Polypropylene glycol                                                                                                                     | oral           | LD50 Rat: > 5000 mg/kg                              |
|                                                                                                                                          | dermal         | LD50 Rabbit: > 3000 mg/kg ([no mortality])          |
|                                                                                                                                          | inhalation     | LC50 Rat: > 0.68 mg/L (4 hr [Vapor] [no mortality]) |

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| Name                                         | Route      | Result                                                          |
|----------------------------------------------|------------|-----------------------------------------------------------------|
| Naphtha (petroleum), hydrodesulfurized heavy | oral       | LD50 Rat: > 5000 mg/kg ([Read-across substance data])           |
|                                              | dermal     | LD50 Rabbit: >2000 mg/kg ([Read-across substance data])         |
|                                              | inhalation | LC50 Rat: >5.6 mg/L (4 hr [Vapour, Read-across substance data]) |

### Skin Corrosion/Irritation

**Assessment:**

Causes skin irritation.

**Product Data:**

No data available.

**Substance Data:**

| Name                                                                                                                                     | Result                  |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Causes skin irritation. |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | Causes skin irritation. |
| Diphenylmethane diisocyanate                                                                                                             | Causes skin irritation. |
| Xylene                                                                                                                                   | Causes skin irritation. |

### Serious Eye Damage/Irritation

**Assessment:**

Causes serious eye irritation.

**Product Data:**

No data available.

**Substance Data:**

| Name                                                                                                                                     | Result                         |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Causes serious eye irritation. |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | Causes serious eye irritation. |
| Diphenylmethane diisocyanate                                                                                                             | Causes serious eye irritation. |

### Respiratory or Skin Sensitization

**Assessment:**

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

May cause an allergic skin reaction.

**Product Data:**

No data available.

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### Substance Data:

| Name                                                                                                                                     | Result                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
|                                                                                                                                          | May cause an allergic skin reaction.                                       |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
|                                                                                                                                          | May cause an allergic skin reaction.                                       |
| Diphenylmethane diisocyanate                                                                                                             | May cause an allergic skin reaction.                                       |
|                                                                                                                                          | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

### Carcinogenicity

#### Assessment:

May cause cancer.

**Product Data:** No data available.

#### Substance Data:

| Name                                                                                                                                     | Species | Result                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------|
| 4,4'-methylenediphenyl diisocyanate                                                                                                      |         | Suspect of causing cancer.                 |
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate |         | Suspected of causing cancer by inhalation. |
| Diphenylmethane diisocyanate                                                                                                             |         | Suspected of causing cancer.               |
| Cumene                                                                                                                                   |         | May cause cancer.                          |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             |         | May cause cancer.                          |

### International Agency for Research on Cancer (IARC):

| Name                                                                                                                                     | Classification |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | Group 3        |
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Group 3        |
| Diphenylmethane diisocyanate                                                                                                             | Group 3        |
| Cumene                                                                                                                                   | Group 2B       |
| Ethylbenzene                                                                                                                             | Group 2B       |

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| Name                                         | Classification |
|----------------------------------------------|----------------|
| Xylene                                       | Group 3        |
| Aluminum powder (stabilized)                 | Not Applicable |
| Polypropylene glycol                         | Not Applicable |
| Naphtha (petroleum), hydrodesulfurized heavy | Group 3        |

### National Toxicology Program (NTP):

| Name                                                                                                                                     | Classification                                 |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Not Applicable                                 |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | Not Applicable                                 |
| Diphenylmethane diisocyanate                                                                                                             | Not Applicable                                 |
| Cumene                                                                                                                                   | Reasonably anticipated to be human carcinogens |
| Ethylbenzene                                                                                                                             | Not Applicable                                 |
| Xylene                                                                                                                                   | Not Applicable                                 |
| Aluminum powder (stabilized)                                                                                                             | Not Applicable                                 |
| Polypropylene glycol                                                                                                                     | Not Applicable                                 |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Not Applicable                                 |

**OSHA Carcinogens:** Not applicable

### Germ Cell Mutagenicity

**Assessment:**

May cause genetic defects.

**Product Data:**

No data available.

**Substance Data:**

| Name                                         | Result                     |
|----------------------------------------------|----------------------------|
| Naphtha (petroleum), hydrodesulfurized heavy | May cause genetic defects. |

### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

### Specific Target Organ Toxicity (Single Exposure)

**Assessment:**

May cause respiratory irritation.

**Product Data:**

No data available.

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### Substance Data:

| Name                                                                                                                                     | Result                            |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | May cause respiratory irritation. |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | May cause respiratory irritation. |
| Diphenylmethane diisocyanate                                                                                                             | May cause respiratory irritation. |
| Cumene                                                                                                                                   | May cause respiratory irritation. |

### Specific Target Organ Toxicity (Repeated Exposure)

#### Assessment:

Causes damage to organs through prolonged or repeated exposure.

#### Product Data:

No data available.

#### Substance Data:

| Name                                                                                                                                     | Result                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | May cause damage to respiratory system through prolonged or repeated inhalation.                                                                                                             |
| Diphenylmethane diisocyanate                                                                                                             | Chronic or repeated exposure may cause an asthma - like allergy. Repeated allergic lung attacks may lead to permanent scarring of the lungs (pulmonary fibrosis) with reduced lung function. |
| Ethylbenzene                                                                                                                             | May cause damage to organs (hearing; central nervous system) through prolonged or repeated exposure.                                                                                         |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | May cause damage to the respiratory system and lungs through prolonged or repeated exposure.                                                                                                 |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Causes damage to the central nervous system through prolonged or repeated exposure.                                                                                                          |

### Aspiration toxicity

#### Assessment:

May be fatal if swallowed and enters airways.

#### Product Data:

No data available.

#### Substance Data:

| Name                                         | Result                                        |
|----------------------------------------------|-----------------------------------------------|
| Cumene                                       | May be fatal if swallowed and enters airways. |
| Ethylbenzene                                 | May be fatal if swallowed and enters airways. |
| Naphtha (petroleum), hydrodesulfurized heavy | May be fatal if swallowed and enters airways. |

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**Information on Likely Routes of Exposure:**

No data available.

**Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:**

No data available.

**Other Information:**

No data available.

### SECTION 12: Ecological Information

**Acute (Short-Term) Toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:**

| Name                                                                                                                                     | Result                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Fish LC50 Freshwater Fish: >100 mg/L (96 hr [LL50-Read-across substance data])                                                                               |
|                                                                                                                                          | Aquatic Plants EC50 Algae species: >100 mg/L (72 hr [EL50-growth rate, Read-across substance data])                                                          |
|                                                                                                                                          | Aquatic Invertebrates EC50 Aquatic invertebrates: >100 mg/L (48 hr [EL50-mobility, Read-across substance data])                                              |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | Fish LC50 Danio rerio: >100 mg/L (96 hr [mortality])                                                                                                         |
|                                                                                                                                          | Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])                                                                                      |
|                                                                                                                                          | Aquatic Invertebrates EC50 Desmodesmus subspicatus: > 100 mg/L ([EL50] 72 hr [growth rate])                                                                  |
| Cumene                                                                                                                                   | Fish LC50 Cyprinodon variegatus: 4.7 mg/L (96 hr)                                                                                                            |
|                                                                                                                                          | Aquatic Invertebrates EC50 Daphnia magna: 2.14 mg/L (48 hr [mobility])                                                                                       |
|                                                                                                                                          | Aquatic Plants EC50 Desmodesmus subspicatus: 2.01 mg/L (72 hr [growth rate])                                                                                 |
| Ethylbenzene                                                                                                                             | Fish LC50 Menidia menidia: 5.1 mg/L (96 hr)                                                                                                                  |
|                                                                                                                                          | Aquatic Invertebrates EC50 Daphnia magna: 1.8 - 2.4 mg/L (48 hr [adult length, weight, reproduction, age at first brood release, neonate length and weight]) |
|                                                                                                                                          | Aquatic Plants EC50 Raphidocelis subcapitata: 5.4 mg/L (72 hr [cell number])                                                                                 |
| Xylene                                                                                                                                   | Fish LC50 Oncorhynchus mykiss: 2.6 mg/L (96 hr [mortality; Read-across substance data])                                                                      |
|                                                                                                                                          | Aquatic Plants EC50 Raphidocelis subcapitata: 4.9 mg/L (72 hr [growth inhibition, Read-across substance data])                                               |
|                                                                                                                                          | Aquatic Invertebrates EC50 Daphnia magna: 3.82 mg/L (48 hr)                                                                                                  |
| Aluminum powder (stabilized)                                                                                                             | Fish LC50 Pimephales promelas: > 218.64 mg/L (96 hr)                                                                                                         |
|                                                                                                                                          | Aquatic Invertebrates LC50 Daphnia magna: 1.4 mg/L (48 hr)                                                                                                   |
| Polypropylene glycol                                                                                                                     | Fish LC50 Danio rerio: >100 mg/L (96 hr)                                                                                                                     |
|                                                                                                                                          | Aquatic Invertebrates EC50 Daphnia magna: 105.8 mg/L (48 hr)                                                                                                 |
|                                                                                                                                          | Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (72 hr)                                                                                               |

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| Name                                         | Result                                                                                                  |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrodesulfurized heavy | Aquatic Plants EC50 Raphidocelis subcapitata: 3.1 mg/L (72 hr [growth rate-Read-across substance data]) |
|                                              | Aquatic Invertebrates EC50 Daphnia magna: 4.5 mg/L (48 hr [EL50-mobility, Read-across substance data])  |
|                                              | Fish LC50 Pimephales promelas: 8.2 mg/L (96 hr [LL50- Read-across substance data])                      |

### Chronic (Long-Term) Toxicity

**Assessment:**

Toxic to aquatic life with long lasting effects.

**Product Data:** No data available.

**Substance Data:**

| Name                                                                                                                                     | Result                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Aquatic Invertebrates NOEC Daphnia magna: >10 mg/L (21 d [reproduction, Read-across substance data])           |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | Aquatic Invertebrates NOEC Daphnia magna: ≥10 mg/L (21 d [reproduction; read-across substance data])           |
| Diphenylmethane diisocyanate                                                                                                             | Aquatic Invertebrates NOEC Daphnia magna: >10 mg/L (21 d)                                                      |
| Cumene                                                                                                                                   | Fish NOEC Danio rerio and Pimephales promelas: 0.38 mg/L (28 d [QSAR substance data])                          |
|                                                                                                                                          | Aquatic Invertebrates NOEC Daphnia magna: 0.35 mg/L (21 d [reproduction and survival of parent animals])       |
| Xylene                                                                                                                                   | Fish NOEC Danio rerio: 0.714 mg/L (35 d [post hatch survival and overall survival Read-across substance data]) |
|                                                                                                                                          | Aquatic Invertebrates NOEC Daphnia magna: 1.57 mg/L (21 d [reproduction, Read-across substance data])          |
| Aluminum powder (stabilized)                                                                                                             | Fish EC50 Pimephales promelas: 1.078 mg/L (7 d [biomass])                                                      |
|                                                                                                                                          | Aquatic Invertebrates LC50 Daphnia magna: 1.61 mg/L (28 d)                                                     |
| Polypropylene glycol                                                                                                                     | Aquatic Invertebrates NOEC Daphnia magna: ≥ 10 mg/L (21 d [mortality])                                         |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Aquatic Invertebrates NOEC Daphnia magna: 2.6 mg/L (21 d [NOELR-reproduction, Read-across substance data])     |
|                                                                                                                                          | Fish NOEC Pimephales promelas: 2.6 mg/L (14 d [NOELR-mortality, Read-across substance data])                   |

### Persistence and Degradability

**Product Data:** No data available.

**Substance Data:**

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| Name                                                                                                                                     | Result                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | The substance is not readily biodegradable. 1% degradation in water, measured by O2 consumption, after 28 days (Read-across substance data). |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | The substance is not readily biodegradable. 0% degradation in water, measured by O2 consumption, after 28 days.                              |
| Cumene                                                                                                                                   | The substance is readily biodegradable. 70% degradation in water, measured by O2 consumption, after 20 days.                                 |
| Ethylbenzene                                                                                                                             | The substance is readily biodegradable. 70 - 80% degradation in water, measured by inorganic Carbon analysis, after 28 days.                 |
| Xylene                                                                                                                                   | The substance is readily biodegradable. 94% degradation in water, measured by O2 consumption, after 28 days (Read-across substance data).    |
| Aluminum powder (stabilized)                                                                                                             | Biotic degradation is an irrelevant process for inorganic substances.                                                                        |
| Polypropylene glycol                                                                                                                     | The substance is readily biodegradable. 86.6 % degradation in water, after 28 days.                                                          |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Standard biodegradability studies are not applicable to UVCB substances.                                                                     |

### Bioaccumulative Potential

**Product Data:** No data available.

#### Substance Data:

| Name                                                                                                                                     | Result                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Standard bioaccumulation studies are not applicable to UVCB substances.                                                                       |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | The substance is not expected to bioaccumulate (BCF: 200).                                                                                    |
| Diphenylmethane diisocyanate                                                                                                             | Exposure of carp to 0.00001% concentrations for an eight week period resulted in no bioaccumulations.                                         |
| Cumene                                                                                                                                   | The substance is not expected to bioaccumulate (BCF: 94.69 L/kg, aquatic species : fish).                                                     |
| Ethylbenzene                                                                                                                             | The substance is not expected to bioaccumulate (BCF: 110 L/Kg; (Q)SAR substance data).                                                        |
| Xylene                                                                                                                                   | The substance is not expected to bioaccumulate (BCF = 25.9 dimensionless).                                                                    |
| Aluminum powder (stabilized)                                                                                                             | The available evidence shows the absence of aluminium biomagnification across trophic levels both in the aquatic and terrestrial food chains. |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Standard bioaccumulation studies are not applicable to UVCB substances.                                                                       |

### Mobility in Soil

**Product Data:** No data available.

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#### Substance Data:

| Name                                                                                                                                     | Result                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | The substance is hardly mobile, therefore, there is a high potential for adsorption to soil and sediment (log Koc: 4.5, Read-across substance data). |
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | The substance is hardly mobile, therefore, there is a high potential for adsorption to soil and sediment (Log Koc: 4.5; (Q)SAR substance data).      |
| Diphenylmethane diisocyanate                                                                                                             | Hydrolyzes rapidly in aqueous solution.                                                                                                              |
| Cumene                                                                                                                                   | The substance is moderately mobile, therefore, there is moderate potential for adsorption to soil and sediment (log Koc: 2.946).                     |
| Ethylbenzene                                                                                                                             | The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc = 3.12; (Q)SAR substance data).                    |
| Xylene                                                                                                                                   | The substance is moderately mobile, therefore, slight adsorption to soil is expected (log Koc=2.73 dimensionless, Read-across substance data).       |
| Polypropylene glycol                                                                                                                     | The substance is mobile, therefore, there is low potential for adsorption to soil and sediment (Log Koc: < 1.25).                                    |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Standard adsorption/desorption studies are not applicable to UVCB substances.                                                                        |

#### Results of PBT and vPvB assessment

##### Product Data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

##### Substance Data:

###### PBT assessment:

|                                                                                                                                          |                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 4,4'-methylenediphenyl diisocyanate                                                                                                      | The substance is not PBT.                                   |
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Standard PBT studies are not applicable to UVCB substances. |
| Cumene                                                                                                                                   | The substance is not PBT.                                   |
| Ethylbenzene                                                                                                                             | The substance is not PBT.                                   |
| Xylene                                                                                                                                   | The substance is not PBT.                                   |
| Aluminum powder (stabilized)                                                                                                             | PBT assessment does not apply to inorganic substances.      |
| Polypropylene glycol                                                                                                                     | The substance is not PBT.                                   |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Standard PBT studies are not applicable to UVCB substances. |

###### vPvB assessment:

|                                     |                            |
|-------------------------------------|----------------------------|
| 4,4'-methylenediphenyl diisocyanate | The substance is not vPvB. |
|-------------------------------------|----------------------------|

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|                                                                                                                                          |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Standard vBvB studies are not applicable to UVCB substances. |
| Cumene                                                                                                                                   | The substance is not vPvB.                                   |
| Ethylbenzene                                                                                                                             | The substance is not vPvB.                                   |
| Xylene                                                                                                                                   | The substance is not vPvB.                                   |
| Aluminum powder (stabilized)                                                                                                             | vPvB assessment does not apply to inorganic substances.      |
| Polypropylene glycol                                                                                                                     | The substance is not vPvB.                                   |
| Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Standard vBvB studies are not applicable to UVCB substances. |

**Other Adverse Effects:** No data available.

## SECTION 13: Disposal Considerations

### Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. If product becomes a waste, it does not meet criteria of hazardous waste as defined in 40 CFR 261, Subpart C and D. Do not discharge into sewer system. Spill cleanup residues may still be subject to RCRA storage and disposal requirements.

Dispose waste in compliance with local, state and federal regulations via licensed waste disposal contractor.

### Contaminated packages:

Even after emptying, container may retain residues. Containers should be completely emptied and safely stored until appropriately reconditioned or disposed through licensed contractor in accordance with government regulation. This material and its container must be disposed of in a safe way.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

|                                      |                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UN Number</b>                     | Not regulated for transport in non-bulk packagings per 49 CFR 173.150(f)                                                                                                                                                                                                                                                                                                 |
| <b>UN Proper Shipping Name</b>       | Not regulated                                                                                                                                                                                                                                                                                                                                                            |
| <b>UN Transport Hazard Class(es)</b> | None                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Packing Group</b>                 | None                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Environmental Hazards</b>         | None                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Special Precautions for User</b>  | None                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Additional Information</b>        | Not regulated as a hazardous material in non-bulk packaging per 49 CFR 173.150(f), as the material is reclassified as a combustible liquid (flash point $\geq 38^{\circ}\text{C}$ ). Bulk shipments ( $\geq 119$ gallons): NA1993, Combustible liquid. Note: This exception applies only to U.S. ground transport. For air and sea transport classifications, see below. |

### International Maritime Dangerous Goods (IMDG)

|                                |        |
|--------------------------------|--------|
| <b>UN Number</b>               | UN1263 |
| <b>UN Proper Shipping Name</b> | PAINT  |

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|--------------------------------------|------|-------------------------------------------------------------------------------------|
| <b>UN Transport Hazard Class(es)</b> | 3    |  |
| <b>Packing Group</b>                 | III  |                                                                                     |
| <b>Environmental Hazards</b>         | None |                                                                                     |
| <b>Special Precautions for User</b>  | None |                                                                                     |

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

|                                      |        |                                                                                     |
|--------------------------------------|--------|-------------------------------------------------------------------------------------|
| <b>UN Number</b>                     | UN1263 |                                                                                     |
| <b>UN Proper Shipping Name</b>       | PAINT  |                                                                                     |
| <b>UN Transport Hazard Class(es)</b> | 3      |  |
| <b>Packing Group</b>                 | III    |                                                                                     |
| <b>Environmental Hazards</b>         | None   |                                                                                     |
| <b>Special Precautions for User</b>  | None   |                                                                                     |

### SECTION 15: Regulatory Information

#### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

#### SARA Section 313 Toxic Chemicals:

|           |                                                                                                                                          |        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 9016-87-9 | Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Listed |
| 101-68-8  | 4,4'-methylenediphenyl diisocyanate                                                                                                      | Listed |
| 98-82-8   | Cumene                                                                                                                                   | Listed |
| 100-41-4  | Ethylbenzene                                                                                                                             | Listed |
| 1330-20-7 | Xylene                                                                                                                                   | Listed |
| 7429-90-5 | Aluminum powder (stabilized)                                                                                                             | Listed |

#### CERCLA:

|            |                                              |        |                        |
|------------|----------------------------------------------|--------|------------------------|
| 101-68-8   | 4,4'-methylenediphenyl diisocyanate          | Listed | 5000 lb                |
| 98-82-8    | Cumene                                       | Listed | 5000 lb                |
| 100-41-4   | Ethylbenzene                                 | Listed | 1000 lb                |
| 1330-20-7  | Xylene                                       | Listed | 100 lbs                |
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy | Listed | 100 Lbs. for RCRA D001 |

#### RCRA:

|          |              |        |            |
|----------|--------------|--------|------------|
| 98-82-8  | Cumene       | Listed | U055       |
| 100-41-4 | Ethylbenzene | Listed | F039, D001 |

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|            |                                              |        |      |
|------------|----------------------------------------------|--------|------|
| 1330-20-7  | Xylene                                       | Listed | U239 |
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy | Listed | D001 |

### Section 112(r) of the Clean Air Act (CAA):

|          |              |        |
|----------|--------------|--------|
| 100-41-4 | Ethylbenzene | Listed |
|----------|--------------|--------|

### Massachusetts Right to Know:

|            |                                              |        |
|------------|----------------------------------------------|--------|
| 101-68-8   | 4,4'-methylenediphenyl diisocyanate          | Listed |
| 98-82-8    | Cumene                                       | Listed |
| 100-41-4   | Ethylbenzene                                 | Listed |
| 1330-20-7  | Xylene                                       | Listed |
| 7429-90-5  | Aluminum powder (stabilized)                 | Listed |
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy | Listed |

### New Jersey Right to Know:

|            |                                                                                                                                          |        |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 9016-87-9  | Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Listed |
| 101-68-8   | 4,4'-methylenediphenyl diisocyanate                                                                                                      | Listed |
| 26447-40-5 | Diphenylmethane diisocyanate                                                                                                             | Listed |
| 98-82-8    | Cumene                                                                                                                                   | Listed |
| 100-41-4   | Ethylbenzene                                                                                                                             | Listed |
| 1330-20-7  | Xylene                                                                                                                                   | Listed |
| 7429-90-5  | Aluminum powder (stabilized)                                                                                                             | Listed |
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Listed |

### New York Right to Know:

|            |                                                                                                                                          |        |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 9016-87-9  | Reaction mass of 4,4'-methylenediphenyl diisocyanate and 2,2'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Listed |
| 101-68-8   | 4,4'-methylenediphenyl diisocyanate                                                                                                      | Listed |
| 26447-40-5 | Diphenylmethane diisocyanate                                                                                                             | Listed |
| 98-82-8    | Cumene                                                                                                                                   | Listed |
| 100-41-4   | Ethylbenzene                                                                                                                             | Listed |
| 1330-20-7  | Xylene                                                                                                                                   | Listed |
| 7429-90-5  | Aluminum powder (stabilized)                                                                                                             | Listed |
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy                                                                                             | Listed |

### Pennsylvania Right to Know:

|            |                                              |        |
|------------|----------------------------------------------|--------|
| 101-68-8   | 4,4'-methylenediphenyl diisocyanate          | Listed |
| 98-82-8    | Cumene                                       | Listed |
| 100-41-4   | Ethylbenzene                                 | Listed |
| 1330-20-7  | Xylene                                       | Listed |
| 7429-90-5  | Aluminum powder (stabilized)                 | Listed |
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy | Listed |

### California Proposition 65:

**⚠ WARNING:** This product can expose you to chemicals including Cumene and Ethyl Benzene which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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**Additional information:** Not determined.

## SECTION 16: Other Information

**Abbreviations and Acronyms:** None

**Disclaimer:**

The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Rhino Linings Corporation makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof. Sections 11/12 Disclaimer (Toxicity/Ecotoxicity): This product itself has not been tested. Information given is based on data on the components and the toxicology of similar products. Section 14 (Transport Information): Information provided in Section 14 is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**NFPA:** 2-2-0

**HMIS:** 2\*-2-0

**Initial Preparation Date:** 06.15.2015

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**Revision Notes:**

| Revision Date | Notes           |
|---------------|-----------------|
| 2015-06-15    |                 |
| 2026-05-18    | Internal Review |

**End of Safety Data Sheet**