

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** DEVCON® Dev-Thane™ 5 Resin

**Other means of identification**

**SKU#** 14511

**Recommended use** Not available.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company name** ITW Performance Polymers

**Address** 35 Brownridge Rd  
Unit 1  
Halton Hills, ON L7G 0C6

**Contact person** Customer Service

**Telephone number** 978-777-1100

**Fax**

**E-mail**

**Emergency telephone number** 800-424-9300

**Supplier** Not available.

## 2. Hazard identification

**Physical hazards** Not classified.

**Health hazards**

|  |   |
|--|---|
| Acute toxicity, inhalation                               | Category 4                              |
| Skin corrosion/irritation                                | Category 2                              |
| Serious eye damage/eye irritation                        | Category 2A                             |
| Sensitization, respiratory                               | Category 1                              |
| Sensitization, skin                                      | Category 1A                             |
| Specific target organ toxicity following single exposure | Category 3 respiratory tract irritation |

**Environmental hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

**Precautionary statement**

**Prevention** Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves. Wear respiratory protection.

**Response** IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTRE/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTRE/doctor. Take off contaminated clothing and wash it before reuse.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

|                                 |   |
|---------------------------------|---|
| <b>Disposal</b>                 | Dispose of contents/container in accordance with local/regional/national/international regulations.   |
| <b>Other hazards</b>            | None known.   |
| <b>Supplemental information</b> | 70 % of the mixture consists of component(s) of unknown acute oral toxicity. 70 % of the mixture consists of component(s) of unknown acute dermal toxicity. 70 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 70 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number | %       |
|--|--------------------------|------------|---------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE        |                          | 101-68-8   | 30 - 60 |
| Methylenediphenyl Diisocyanate (mdi)     |                          | 26447-40-5 | 5 - 10  |
| Other components below reportable levels |                          |            | > 30    |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician. |
| <b>Skin contact</b>   | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.  |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.   |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Powder. Carbon dioxide (CO <sub>2</sub> ).  |
| <b>Unsuitable extinguishing media</b>                                | Water. Do not use water jet as an extinguisher, as this will spread the fire.                 |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|--|--|

**Methods and materials for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage****Precautions for safe handling**

Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits****US. ACGIH Threshold Limit Values**

| Components                                       | Type | Value     |
|--|------|-----------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) | TWA  | 0.005 ppm |

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

| Components                                       | Type | Value                  |
|--|------|------------------------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) | TWA  | 0.05 mg/m <sup>3</sup> |
|  |      | 0.005 ppm              |

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

| Components  | Type    | Value     |
|---|---------|-----------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8)      | Ceiling | 0.01 ppm  |
|   | TWA     | 0.005 ppm |
| Methylenediphenyl Diisocyanate (mdi) (CAS 26447-40-5) | Ceiling | 0.01 ppm  |
|   | TWA     | 0.005 ppm |

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

| Components                                       | Type | Value     |
|--|------|-----------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) | TWA  | 0.005 ppm |

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

| Components                                       | Type    | Value     |
|--|---------|-----------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) | Ceiling | 0.02 ppm  |
|  | TWA     | 0.005 ppm |

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

| Components                                       | Type | Value                   |
|--|------|-------------------------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) | TWA  | 0.051 mg/m <sup>3</sup> |

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

| Components | Type | Value     |
|------------|------|-----------|
|            |      | 0.005 ppm |

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

| Components   | Type      | Value     |
|--|-----------|-----------|
| 4,4'-DIPHENYLMETHANE<br>DIISOCYANATE (CAS<br>101-68-8) | 15 minute | 0.015 ppm |
|  | 8 hour    | 0.005 ppm |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****Canada - British Columbia OELs: Skin designation**

4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) Can be absorbed through the skin.

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties**

|   |                           |
|---|---------------------------|
| <b>Appearance</b>                                   | Liquid.                   |
| <b>Physical state</b>                               | Liquid.                   |
| <b>Form</b>   | Liquid.                   |
| <b>Colour</b>                                       | Beige.                    |
| <b>Odour</b>  | Musty.                    |
| <b>Odour threshold</b>                              | Not available.            |
| <b>pH</b>   | Not available.            |
| <b>Melting point/freezing point</b>                 | 37 °C (98.6 °F) estimated |
| <b>Initial boiling point and boiling range</b>      | Not available.            |
| <b>Flash point</b>                                  | > 204.4 °C (> 399.9 °F)   |
| <b>Evaporation rate</b>                             | Not available.            |
| <b>Flammability (solid, gas)</b>                    | Not applicable.           |
| <b>Upper/lower flammability or explosive limits</b> |                           |
| <b>Flammability limit - lower (%)</b>               | Not available.            |
| <b>Flammability limit - upper (%)</b>               | Not available.            |
| <b>Explosive limit - lower (%)</b>                  | Not available.            |
| <b>Explosive limit - upper (%)</b>                  | Not available.            |
| <b>Vapour pressure</b>                              | 0.00002 hPa estimated     |

|   |                            |
|---|----------------------------|
| Vapour density                          | Not available.             |
| Relative density                        | Not available.             |
| <b>Solubility(ies)</b>                  |                            |
| Solubility (water)                      | Not available.             |
| Partition coefficient (n-octanol/water) | Not available.             |
| Auto-ignition temperature               | Not available.             |
| Decomposition temperature               | Not available.             |
| Viscosity                               | Not available.             |
| <b>Other information</b>                |                            |
| Density                                 | 1.32 g/cm <sup>3</sup>     |
| Explosive properties                    | Not explosive.             |
| Flammability class                      | Combustible IIIB estimated |
| Oxidising properties                    | Not oxidising.             |
| Specific gravity                        | 1.32                       |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Acids. Alcohols.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>Skin contact</b> | Causes skin irritation. May cause an allergic skin reaction.                                   |
| <b>Eye contact</b>  | Causes serious eye irritation.   |
| <b>Ingestion</b>    | Knowledge about health hazard is incomplete.   |

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

|  |                                |
|--|--------------------------------|
| <b>Acute toxicity</b>                    | Harmful if inhaled.            |
| <b>Skin corrosion/irritation</b>         | Causes skin irritation.        |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye irritation. |

### Respiratory or skin sensitisation

#### Canada - British Columbia OELs: Respiratory or skin sensitiser

|   |   |
|---|---|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8)      | Capable of causing respiratory, dermal or conjunctival sensitization. |
| Methylenediphenyl Diisocyanate (mdi) (CAS 26447-40-5) | Capable of causing respiratory, dermal or conjunctival sensitization. |

#### Canada - Quebec OELs: Sensitizer

|  |             |
|--|-------------|
| 4,4'-DIPHENYLMETHANE DIISOCYANATE (CAS 101-68-8) | Sensitiser. |
|--|-------------|

**Respiratory sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity** Due to partial or complete lack of data the classification is not possible.

## IARC Monographs. Overall Evaluation of Carcinogenicity

4,4'-DIPHENYLMETHANE DIISOCYANATE  
(CAS 101-68-8)

3 Not classifiable as to carcinogenicity to humans.

Methylenediphenyl Diisocyanate (mdi) (CAS 26447-40-5)

3 Not classifiable as to carcinogenicity to humans.

|   |   |
|---|---|
| <b>Reproductive toxicity</b>                              | Due to partial or complete lack of data the classification is not possible. |
| <b>Specific target organ toxicity - single exposure</b>   | May cause respiratory irritation.   |
| <b>Specific target organ toxicity - repeated exposure</b> | Due to partial or complete lack of data the classification is not possible. |
| <b>Aspiration hazard</b>                                  | Due to partial or complete lack of data the classification is not possible. |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful.  |

## 12. Ecological information

|                                      |  |
|--------------------------------------|--|
| <b>Ecotoxicity</b>                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| <b>Persistence and degradability</b> | No data is available on the degradability of any ingredients in the mixture.   |
| <b>Bioaccumulative potential</b>     | No data available.   |
| <b>Mobility in soil</b>              | No data available.   |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

## 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.                         |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

## 14. Transport information

### TDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### Controlled Drugs and Substances Act

Not regulated.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

### Greenhouse Gases

Not listed.

### Precursor Control Regulations

Not regulated.

### International regulations

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto Protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories**

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

|                              |
|------------------------------|
| <b>16. Other information</b> |
|------------------------------|

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**Version No.** 01

**Disclaimer** ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.