

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 10/30/2018

Reviewed on 10/30/2018

### 1 Identification

- **Product identifier** Wood Flooring Adhesive
- **Trade name:** Urethane Adhesive
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Divergent Adhesives, LLC  
176 Glenwood LN.  
Gray Court, SC 29645
- **Emergency telephone number:** CHEMTREC 1-800-424-9300 (USA) 1-703-527-3887 (International)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Harmful

May cause sensitization by inhalation.

- *Information concerning particular hazards for human and environment:*

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- *Classification system:*

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

- *Code letter and hazard designation of product:*



Xn Harmful

- *Hazard-determining components of labeling:*

diphenylmethane-4,4'-di-isocyanate

- *Risk phrases:*

May cause sensitization by inhalation.

- *Safety phrases:*

Do not breathe gas/fumes/vapour/spray.

Do not empty into drains.

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Wear suitable protective clothing.  
In case of accident or if you feel unwell, seek medical advice immediately.  
This material and its container must be disposed of as hazardous waste.

- **Special labeling of certain preparations:**  
Contains isocyanates. See information supplied by the manufacturer.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

- **WHMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|          |                                    |        |
|----------|------------------------------------|--------|
| 101-68-8 | diphenylmethane-4,4'-di-isocyanate | ≤ 2.5% |
|----------|------------------------------------|--------|

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complications.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed*  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Wear protective clothing.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**  
· *Requirements to be met by storerooms and receptacles:* No special requirements.  
· *Information about storage in one common storage facility:* Not required.  
· *Further information about storage conditions:* None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

#### 101-68-8 diphenylmethane-4,4'-di-isocyanate

|     |   |
|-----|---|
| PEL | Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm   |
| REL | Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm<br>Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm<br>*10-min |
| TLV | Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm  |

- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
  - *General protective and hygienic measures:*  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
  - *Breathing equipment:*  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.
  - *Protection of hands:* Not required.
  - *Material of gloves:* Butyl rubber, BR
  - *Eye protection:* Goggles recommended during refilling.
  - *Body protection:* Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
  - *Appearance:*

|               |                                    |
|---------------|------------------------------------|
| <i>Form:</i>  | Solid                              |
| <i>Color:</i> | According to product specification |
  - *Odor:* Characteristic
  - *Odour threshold:* Not determined.
  - **pH-value:** Not determined.
  - **Change in condition**
    - *Boiling point/Boiling range:* Undetermined.
  - **Flash point:** 101 °C (214 °F)
  - **Flammability (solid, gaseous):** Not applicable.
  - **Ignition temperature:** 265 °C (509 °F)
  - *Decomposition temperature:* Not determined.
  - **Auto igniting:** Product is not selfigniting.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits:**

|               |                 |
|---------------|-----------------|
| <i>Lower:</i> | Not determined. |
| <i>Upper:</i> | Not determined. |
  - **Vapor pressure:** Not determined.
  - **Density at 20 °C (68 °F):** 1.5 g/cm<sup>3</sup> (12.518 lbs/gal)
  - *Relative density* Not determined.
  - *Vapour density* Not determined.
  - *Evaporation rate* Not determined.
  - **Solubility in / Miscibility with**
    - *Water:* Not determined.
  - **Partition coefficient (n-octanol/water):** Not determined.
  - **Viscosity:**

|                   |                 |
|-------------------|-----------------|
| <i>Dynamic:</i>   | Not determined. |
| <i>Kinematic:</i> | Not determined. |

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- **Solvent content:**
  - Organic solvents: 0.0 %
  - VOC Content: 6.00 %
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· *LD/LC50 values that are relevant for classification:*

### 101-68-8 diphenylmethane-4,4'-di-isocyanate

|            |          |   |
|------------|----------|---|
| Oral       | LD50     | > 2000 mg/kg (Ratte) (Richtlinie 84/449/EWG, B.1) |
| Dermal     | LD50     | >9400 mg/kg (rab) (OECD- Prüfrichtlinie 402)      |
| Inhalative | LC50/ 4h | 0.368 mg/l (Ratte)                                |

- *Primary irritant effect:*
- *on the skin:* No irritant effect.
- *on the eye:* No irritating effect.
- *Sensitization:* Sensitization possible through inhalation.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful

- *Carcinogenic categories*

· *IARC (International Agency for Research on Cancer)*

|          |                                    |   |
|----------|------------------------------------|---|
| 101-68-8 | diphenylmethane-4,4'-di-isocyanate | 3 |
|----------|------------------------------------|---|

· *NTP (National Toxicology Program)*

None of the ingredients is listed.

· *OSHA-Ca (Occupational Safety & Health Administration)*

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

· **Aquatic toxicity:**

### 101-68-8 diphenylmethane-4,4'-di-isocyanate

|      |  |
|------|--|
| EC50 | >1000 mg/l (Daphnia magna Wasserfloh) (OECD- Prüfrichtlinie 202) |
|------|--|

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|           |  |
|-----------|--|
| LC50/ 96h | >1000 mg/l (Danio rerio (Zebraabärbling)) (OECD- Prüfrichtlinie 203)           |
| NOEC      | >10 mg/l (Daphnia magna Wasserfloh) (OECD- Prüfrichtlinie 202 (Fortpflanzung)) |

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** If product has aged or solidified conventional means of disposal are acceptable.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- *Sara*

 · *Section 355 (extremely hazardous substances):*

None of the ingredient is listed.

 · *Section 313 (Specific toxic chemical listings):*

101-68-8 | diphenylmethane-4,4'-di-isocyanate

 · *TSCA (Toxic Substances Control Act):*

All ingredients are listed.

 · *Proposition 65*

 · *Chemicals known to cause cancer:*

None of the ingredients is listed.

 · *Chemicals known to cause reproductive toxicity for females:*

None of the ingredients is listed.

 · *Chemicals known to cause reproductive toxicity for males:*

None of the ingredients is listed.

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· *Chemicals known to cause developmental toxicity:*

None of the ingredients is listed.

· *Canadian Ingredient disclosure list*

· *Limit 0,1%*

None of the ingredients is listed.

· *Limit 1%*

None of the ingredients is listed.

· *Cancerogenity categories*

· *EPA (Environmental Protection Agency)*

101-68-8 diphenylmethane-4,4'-di-isocyanante

D, CBD

· *TLV (Threshold Limit Value established by ACGIH)*

None of the ingredients is listed.

· *MAK (German Maximum Workplace Concentration)*

101-68-8 diphenylmethane-4,4'-di-isocyanante

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· *NIOSH-Ca (National Institute for Occupational Safety and Health)*

None of the ingredients is listed.

· **Product related hazard informations:**

· *Hazard symbols:*

The product has been classified and marked in accordance with directives on hazardous materials.

· *Safety phrases:* Keep out of the reach of children.

· **National regulations:**

· *Technical instructions (air):*

| Class | Share in % |
|-------|------------|
| I     | ≤ 2,5      |

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Technical Department

· **Date of preparation / last revision** 10/30/2018 / -

· **Abbreviations and acronyms:**

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2