

# Safety data sheet

## according to 1907/2006/EC, Article 31


Printing date 27.09.2012

Revision: 27.09.2012

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier:** URETHANE AUTO GLASS ADHESIVE/SEALANT
- **Stock:** CUS \_\_\_\_\_
- **Code:** 9006
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC1 Adhesives, sealants
- **Process category**
- PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
- **Environmental release category** ERC5 Industrial use resulting in inclusion into or onto a matrix
- **Application of the substance / the preparation :** Polyurethane sealant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
  
 DOMINION SURE SEAL LTD.  
 6175 Danville Road  
 Mississauga, Ontario  
 CANADA L5T 2H7  
 Phone: (905) 670-5411  
 Fax : (905) 670-5174  
 Internet : <http://www.dominionsureseal.com>
- **Information department:** Laboratory
- **Emergency telephone number:** (905) 670-5411

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- Xi; Irritant
- R36/38: Irritating to eyes and skin.
- Xn; Sensitising
- R42: May cause sensitisation by inhalation.
- R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**  
The classification was made according to the latest editions of the EU-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 EU directives.
- **Code letter and hazard designation of product:**
-  Xn Harmful
- **Hazard-determining components of labelling:**  
diphenylmethane-4,4'-diisocyanate
- **Risk phrases:**
- 36/38 Irritating to eyes and skin.
- 42 May cause sensitisation by inhalation.

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52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer.

- **Additional information:** Sale forbidden to general public.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.














### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

Product containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

- **Dangerous components:**

CAS: 1333-86-4 EINECS: 215-609-9	Carbon black substance with a Community workplace exposure limit	15-25%
CAS: 108-88-3 EINECS: 203-625-9	toluene  Xn R48/20-63-65;  Xi R38;  F R11 R67 Repr. Cat. 3	2-5%
CAS: 64742-47-8 EINECS: 265-149-8	distillates (petroleum), light  Xn R65 R66	< 1.5%
CAS: 101-68-8 EINECS: 202-966-0	diphenylmethane-4,4'-diisocyanate  Xn R20-40-48/20;  Xn R42/43;  Xi R36/37/38 Carc. Cat. 3	< 1%
CAS: 683-18-1 EINECS: 211-670-0	dibutyltin dichloride  T+ R26;  T Repr. Cat. 2 R60-61-25-48/25;  C R34;  Xn R21-48/20-68;  Xi R43;  N R50/53 Muta. Cat. 3	< 0.1%

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

### 4 First aid measures

- **Description of first aid measures**

- **General information** Immediately remove any clothing soiled by the product.

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness, place patient stably in side position for transportation.

- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing** Do not induce vomiting; call for medical help immediately.

- **Most important symptoms and effects, both acute and delayed**

Drowsiness

Headache

Dizziness

Nausea

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
Carbon dioxide  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Nitrogen oxides (NOx)  
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Hydrogen cyanide (HCN)  
Isocyanates
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Keep away from ignition sources.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.  
Do not close them (reaction with water forming carbon dioxide).
- **Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** Prevent formation of dust.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from humidity and water.
- **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.

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- **Control parameters**

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

**1333-86-4 Carbon black**

WEL	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3.5 mg/m <sup>3</sup>
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**108-88-3 toluene**

WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk
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**64742-47-8 distillates (petroleum), light**

OEL	Short-term value: 1200 mg/m <sup>3</sup> , 165 ppm
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**101-68-8 diphenylmethane-4,4'-diisocyanate**

WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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**683-18-1 dibutyltin dichloride**

WEL	Short-term value: 0.2 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> as Sn; Sk
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- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

Avoid close or long term contact with the skin.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke while working.

- **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter AB

- **Protection of hands:**

PVA gloves of superior quality.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Pasty

**Colour:** Black

· **Odour:** without

- **Change in condition**

**Melting point/Melting range:** undetermined

**Boiling point/Boiling range:** 110°C

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· <b>Flash point:</b>	> 50°C
· <b>Flammability (solid)</b>	The product is not subject to classification because its speed of combustion is lower than the limit of the regulation.
· <b>Self-ignition temperature:</b>	450°C
· <b>Self igniting:</b>	Product is not selfigniting at room temperature.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible
· <b>Explosion limits:</b>	
<b>Lower:</b>	1 Vol %
<b>Upper:</b>	8 Vol %
· <b>Density at 20°C:</b>	1.2
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Other information</b>	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**  
Reacts with alcohols, amines, aqueous acids and alkalis.  
Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None to our knowledge at room temperature.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

<b>108-88-3 toluene</b>		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rab)
Inhalative	LC50/4 h	5320 mg/l (mus)
<b>683-18-1 dibutyltin dichloride</b>		
Oral	LD50	100 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**  
Sensitizing effect through inhalation is possible with prolonged exposure.  
Sensitization possible through inhalation.

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### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
 The product contains materials that are harmful to the environment.  
 Do not allow product to reach ground water, water course or sewage system.  
 Harmful to aquatic organisms*
- **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** Incinerator for hazardous waste or authorized dump.
- **Waste disposal key:** 08 04 09\*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |   |
|--|---|
| · <b>UN-Number</b>   |   |
| · <b>ADR, ADN, IMDG, IATA</b>  | 1133 - Not regulated; meets general Class 3 exemption |
| · <b>UN proper shipping name</b>   |   |
| · <b>ADR, ADN</b>  |   |
| · <b>IATA</b>  | Adhesives   |
| · <b>Transport hazard class(es)</b>  |   |
| · <b>ADR, ADN, IMDG, IATA</b>  |   |
| · <b>Class</b>   | 3   |
| · <b>Packing group</b>   |   |
| · <b>ADR, IMDG, IATA</b>   | III   |
| · <b>Environmental hazards:</b>  |   |
| · <b>Marine pollutant:</b>   | No  |
| · <b>Special precautions for user</b>  | Note: PGIII; Flash Point > 50°C                       |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                       |

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### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Markings according to EU guidelines:**
- **Advised phrases:**
  - S 26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*
  - S 28 *After contact with skin, wash immediately with plenty of soap and water.*
- **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. This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and its amendments ; it is written according to annex I of the european regulation 453/2010/EC.*

- **Relevant phrases**
  - R11 *Highly flammable.*
  - R20 *Harmful by inhalation.*
  - R21 *Harmful in contact with skin.*
  - R25 *Toxic if swallowed.*
  - R26 *Very toxic by inhalation.*
  - R34 *Causes burns.*
  - R36/37/38 *Irritating to eyes, respiratory system and skin.*
  - R38 *Irritating to skin.*
  - R40 *Limited evidence of a carcinogenic effect.*
  - R42/43 *May cause sensitisation by inhalation and skin contact.*
  - R43 *May cause sensitisation by skin contact.*
  - R48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*
  - R48/25 *Toxic: danger of serious damage to health by prolonged exposure if swallowed.*
  - R50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
  - R60 *May impair fertility.*
  - R61 *May cause harm to the unborn child.*
  - R63 *Possible risk of harm to the unborn child.*
  - R65 *Harmful: may cause lung damage if swallowed.*
  - R66 *Repeated exposure may cause skin dryness or cracking.*
  - R67 *Vapours may cause drowsiness and dizziness.*
  - R68 *Possible risk of irreversible effects.*
- **Department issuing MSDS:** Laboratory
- **Review :**

*An asterisk in the margin of a paragraph means amendments in comparison to the former version.*