

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/05/2010

Reviewed on 02/05/2010

1 Identification of substance

- **Product details**
- **Trade name:** **Sakrete Construction Adhesive**
- **Article number:** 65450012
- **Application of the substance / the preparation :** Polyurethane-sealant
- **Manufacturer/Supplier:**
 Manufacturer :
 EMFI S.A.S.
 3 RUE ETTORE BUGATTI
 BP 40030
 67501 HAGUENAU CEDEX
 FRANCE
 Phone: 33 3 88 90 60 00
 Fax : 33 3 88 90 60 00
 Internet : <http://www.emfi.com>
- Supplier :
 Bonsal American Inc./ an Oldcastle company
 8201 Arrowridge Blvd
 Charlotte, NC 28273
 Phone: 1-866-SAKRETE
 704-525-1621
- **Information department:** Environment Protection Department
- **Emergency information:** 800-424-9300 (Chemtrec) or 703-527-3887 (outside USA)

2 Composition/Data on components

- **Chemical characterization**
- **Description:**
 Adhesive containing a polyurethane prepolymer based on diphenylmethanediisocyanate

- **Dangerous components:**

9002-86-2	Polyvinyl chloride	25-50%
64742-47-8	distillates (petroleum), light ☒ Xn; R 65-66	2-6%
13463-67-7	titanium dioxide	< 2.5%
1305-78-8	calcium oxide ☒ Xi; R 41	< 2.5%
101-68-8	diphenylmethane-4,4'-diisocyanate ☒ Xn, ☒ Xi; R 20-36/37/38-40-42/43-48/20	< 1%

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

3 Hazards identification

- **Hazard description:**



Xn Harmful

- **WHMIS classification**
 D2A - Very toxic material causing other toxic effects



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· **Information pertaining to particular dangers for man and environment:**

Contains isocyanates. See information supplied by the manufacturer.

R 42 May cause sensitization by inhalation.

Contains isocyanates. See information supplied by the manufacturer.

· **Classification system:**

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

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 2

Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 0

Fire = 2

Reactivity = 0

4 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.

· **The following symptoms may occur:**

Dizziness

Headache

Dizziness

Nausea

5 Fire fighting measures

· **Suitable extinguishing agents:**

Carbon dioxide

Foam

Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Hydrogen cyanide (HCN)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Isocyanates

· **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

· **Person-related safety precautions:**

Ensure adequate ventilation

Keep away from ignition sources

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- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Do not close them (reaction with water forming carbon dioxide)

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in dry conditions.
Store in a cool place.

8 Exposure controls and personal protection

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

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

9002-86-2 Polyvinyl chloride

EL 1 mg/m³

64742-47-8 distillates (petroleum), light

EL 200 mg/m³
Skin

13463-67-7 titanium dioxide

EL 10 mg/m³
IARC 2B
EV 10 mg/m³
total dust

1305-78-8 calcium oxide

EL 2 mg/m³
EV 2 mg/m³

101-68-8 diphenylmethane-4,4'-diisocyanate

EL Short-term value: C 0.01 ppm
Long-term value: 0.005 ppm
Skin; S

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

- **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 or 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:

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- **Protection of hands:**

Nitrile rubber gloves

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

- **General Information**

Form:	Pasty
Color:	grey, white, black
Odor:	Characteristic

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 190°C

- **Flash point:** > 70°C

- **Ignition temperature:** > 200°C

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

Lower: 0.6 Vol %

Upper: 7 Vol %

- **Density at 20°C:** 1.16

- **Solubility in / Miscibility with**

Water: Insoluble.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Materials to be avoided:**

- **Dangerous reactions**

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

- **Dangerous products of decomposition:** None to our knowledge at room temperature.

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** Sensitization possible through inhalation.

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12 Ecological information

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must be disposed of in an incinerator for hazardous waste according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Remarks:** Not hazardous
- **TDG (Transport dangerous goods):**
- **TDG class:** -
- **Remarks:** Not hazardous
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Remarks:** Not hazardous
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Propper shipping name:** Not regulated
- **Remarks:** Not hazardous.

15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

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

101-68-8 diphenylmethane-4,4'-diisocyanate

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

1333-86-4 Carbon black

- **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.

· **Cancerogeny categories**

· **EPA (Environmental Protection Agency)**

101-68-8	diphenylmethane-4,4'-diisocyanate	CBD
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· **IARC (International Agency for Research on Cancer)**

9002-86-2	Polyvinyl chloride	3
13463-67-7	titanium dioxide	2B
101-68-8	diphenylmethane-4,4'-diisocyanate	3
1333-86-4	Carbon black	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

9002-86-2	Polyvinyl chloride	A4
13463-67-7	titanium dioxide	A4
1333-86-4	Carbon black	A4
77-58-7	dibutyltin dilaurate	A4

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

13463-67-7	titanium dioxide
1333-86-4	Carbon black

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

None of the ingredients is listed.

· **Canadian substance listings :**

· **Canadian Domestic Substances list (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1 %)**

101-68-8	diphenylmethane-4,4'-diisocyanate
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· **Canadian Ingredient Disclosure list (limit 1 %)**

1305-78-8	calcium oxide
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· **Product related hazard informations:**

The product has been classified and marked in accordance with EU Directives.

· **Hazard symbols:**



Xn Harmful

· **Hazard-determining components of labelling:**

diphenylmethane-4,4'-diisocyanate

· **Risk phrases:**

42 May cause sensitization by inhalation.

· **Safety phrases:**

45 In case of accident or if you feel unwell, seek medical advice immediately.

· **Special labeling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer.

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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.

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- **Department issuing MSDS:** Laboratory
- **In accordance with the international standard :**
ISO 11014-1

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

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