

# Safety Data Sheet

acc. to OSHA HCS




Printing date 06/17/2014

Reviewed on 06/16/2014

## 1 Identification

- **Product identifier**
- **Trade name:** *WAKOL PU 280 Moisture Barrier*
- **Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / the mixture** *Primer/ Subcoating*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Loba-Wakol LLC*  
*521-C Eagleton Downs Dr.*  
*Pineville, NC 28134, USA*  
*+1 704 527 5919*
- **Information department:** *Industrial Safety Department*
- **Emergency telephone number:**  
*24-hour-Emergency- Telephone-Number (GBK Contract ID: 98229): (001) 352 323 3500*

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
    -  **Harmful**  
*Harmful by inhalation.*
    -  **Irritant**  
*Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.*
  - **Information concerning particular hazards for human and environment:**  
*The product has to be labeled due to the calculation procedure of international guidelines.*
  - **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 marked in accordance with national laws.*  
*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:**  
*diphenylmethanediisocyanate, isomeres and homologues*
  - **Risk phrases:**  
**WARNING**  
*Limited evidence of carcinogenicity in experimental animals*  
*Harmful by inhalation.*  
*Irritating to eyes, respiratory system and skin.*  
*May cause sensitization by inhalation and skin contact.*
  - **Safety phrases:**  
*Keep out of the reach of children.*  
*Keep container in a well-ventilated place.*  
*Do not breathe vapour/spray.*  
*Avoid contact with skin.*  
*Do not empty into drains.*

(Contd. on page 2)

USA

# Safety Data Sheet

acc. to OSHA HCS

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Reviewed on 06/16/2014

**Trade name: WAKOL PU 280 Moisture Barrier**

(Contd. of page 1)

Wear suitable protective clothing and gloves.  
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.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*2  
Fire = 1  
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Adhesive

· **Dangerous components:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

50-100%

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

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. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **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.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/17/2014

Reviewed on 06/16/2014

**Trade name: WAKOL PU 280 Moisture Barrier**

(Contd. of page 2)

- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground 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:**  
Protect from frost.  
Keep receptacle tightly sealed.
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.

(Contd. on page 4)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/17/2014

Reviewed on 06/16/2014

**Trade name: WAKOL PU 280 Moisture Barrier**

(Contd. of page 3)

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Not necessary if room is well-ventilated.

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.

· **Protection of hands:** Protective gloves

· **Material of gloves** Butyl rubber, BR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed goggles

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid

Color: Blue

· **Odor:** Characteristic

· **Change in condition**

Melting point/Melting range: <0 °C (<32 °F)

Boiling point/Boiling range: 351 °C (664 °F)

· **Flash point:** 210 °C (410 °F)

· **Ignition temperature:** >400 °C (>752 °F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapor pressure at 20 °C (68 °F):** <0.00001 hPa (<0 mm Hg)

· **Density at 20 °C (68 °F):** 1.17 g/cm<sup>3</sup> (9.764 lbs/gal) (EN ISO 2811-1)

· **Solubility in / Miscibility with**

Water: Hydrolized.

· **Viscosity:**

Dynamic at 20 °C (68 °F): 300 mPas (ISO 2555)

· **Solvent content:**

VOC content: 0.00 %

· **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** Reacts with alcohols, amines, aqueous acids and alkalis.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/17/2014

Reviewed on 06/16/2014

**Trade name: WAKOL PU 280 Moisture Barrier**

(Contd. of page 4)

- **Hazardous decomposition products:**  
Danger of toxic pyrolysis products.  
Carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**  
Oral LD50 >15.000 mg/kg (rat)  
Dermal LD50 >5.000 mg/kg (rabbit)  
Inhalative LC50/4h 490 mg/l (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.  
Sensitizing effect by skin contact is possible with prolonged exposure.  
Sensitization possible through inhalation.  
Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**  
**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues: 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:**  
**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**  
EC50/24h >100 mg/l (bacteriums)  
EC50/48h >1.000 mg/l (*Daphnia magna*)  
LC0/96h >1000 mg/l (*Brachydanio rerio*)  
LC50/96h >1.000 mg/l (*Danio rerio*)
- **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.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/17/2014

Reviewed on 06/16/2014

**Trade name: WAKOL PU 280 Moisture Barrier**

(Contd. of page 5)

- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (Self-assessment): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **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:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*  
*Must be specially treated adhering to official regulations.*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

### 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>UN proper shipping name</b>   |  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   |  |
| · <b>DOT, ADR, IMDG, IATA</b>  | Void   |
| · <b>Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>   | No   |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>DOT</b>   |  |
| · <b>Remarks:</b>  | not regulated  |
| · <b>ADR</b>   |  |
| · <b>Remarks:</b>  | not regulated  |
| · <b>IMDG</b>  |  |
| · <b>Remarks:</b>  | not regulated  |
| · <b>IATA</b>  |  |
| · <b>Remarks:</b>  | not regulated  |

USA

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS


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Reviewed on 06/16/2014

**Trade name: WAKOL PU 280 Moisture Barrier**

(Contd. of page 6)

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**  
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
- **Section 313 (Specific toxic chemical listings):**  
None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed or are not required to be listed on the TSCA inventory.
- **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.
- **Chemicals known to cause developmental toxicity:**  
None of the ingredients is listed.
- **Product related hazard informations:**  
The product has been marked in accordance with national laws.  
The product has been classified and marked in accordance with directives on hazardous materials.
- **Hazard symbols:**  
 Xn Harmful
- **Hazard-determining components of labeling:**  
diphenylmethanediisocyanate, isomeres and homologues
- **Risk phrases:**  
Harmful by inhalation.  
Irritating to eyes, respiratory system and skin.  
May cause sensitization by inhalation and skin contact.
- **Safety phrases:**  
Keep container in a well-ventilated place.  
Do not breathe vapour/spray.  
Avoid contact with skin.  
Do not empty into drains.  
Wear suitable protective clothing and gloves.  
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.
- **National regulations:**
- **VOC:**
- **VOC (USA):** 0,0 g/l / 0,0 lb/gl
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

USA

(Contd. on page 8)

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**Trade name: WAKOL PU 280 Moisture Barrier**

(Contd. of page 7)

**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 MSDS:** Industrial Safety Department.
- **Contact:** Dr. Thomas Wieland
- **Date of preparation / last revision** 06/17/2014 / 22

USA