

# Material Safety Data Sheet

## acc. to ISO/DIS 11014

Printing date 01/13/2009

Reviewed on 01/13/2009



### 1 Identification of substance

- **Product details**
- **Trade name:** *PS 205 Casting Resin / A*
- **Application of the substance / the preparation** *Reaction resin*
- **Manufacturer/Supplier:**  
*Loba-Wakol LLC*  
*1604 N. Main St.*  
*Kannapolis, N.C. 28081, USA* (800) 230-6465
- **Information department:** *Industrial Safety Department*
- **Emergency information:** *Infotrac +1 352 323 3500*

### 2 Composition/Data on components

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


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*9016-87-9 diphenylmethanediisocyanate, isomeres and homologues* 50-100%  
 Danger:  *3.4.R/1, 3.2/2, 3.3/2A, 3.4.S/1*  
 Warning:  *3.1.1/4, 3.8/3*

### 3 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment:**  
*The product has to be labelled due to the calculation procedure of international guidelines.*  
*Harmful by inhalation.*  
*Irritating to eyes, respiratory system and skin.*  
*May cause sensitization by inhalation and skin contact.*  
*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 = 2  
 Fire = 1  
 Reactivity = 0

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



HEALTH **2** Health = \*2  
 FIRE **1** Fire = 1  
 REACTIVITY **0** Reactivity = 0

- **GHS label elements**

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**Danger**

- 3.4/1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- 3.2/2 - Causes skin irritation.
- 3.3/2A - Causes serious eye irritation.
- 3.4/1 - May cause an allergic skin reaction.

**Warning**

- 3.1/4 - Harmful if inhaled.
- 3.8/3 - May cause respiratory irritation.

**Prevention:**

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- 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 protective gloves/protective clothing/eye protection/face protection.
- In case of inadequate ventilation wear respiratory protection.

**Response:**

- IF ON SKIN: Wash with plenty of soap and water.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position 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 CENTER or doctor/physician if you feel unwell.
- Specific treatment (see label).
- If skin irritation occurs: Get medical advice/attention.
- 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 CENTER or doctor/physician.
- Take off contaminated clothing and wash before reuse.
- Wash contaminated clothing before reuse.

**Storage:**

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

**Disposal:**

- Dispose of contents/container in accordance with local/regional/national/international regulations.

### 4 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. 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.

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- **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:**
- **Treatment** In cases of irritation to the lungs, initial treatment with Dexametason metered aerosol.

### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
Use fire fighting measures that suit the environment.  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **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 (NO<sub>x</sub>)  
Hydrogen cyanide (HCN)  
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** Prevent seepage into sewage system, workpits and cellars.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Additional information:** See Section 8 for information on personal protection equipment.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Keep receptacles tightly sealed.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Do not store together with alkalis (caustic solutions).  
Do not store together with acids.

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· **Further information about storage conditions:** Keep receptacle tightly sealed.

### 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:**

**9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

PEL Short-term value: C 0.2 mg/m<sup>3</sup>, C 0.02 ppm

REL Short-term value: C 0.2\* mg/m<sup>3</sup>, C 0.02\* ppm

Long-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm

\* 10min

TLV 0.051 mg/m<sup>3</sup>, 0.005 ppm

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

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

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:**

Preventive skin protection by use of skin-protecting agents is recommended.

For direct contact with liquid adhesive (for example cleaning works): protective gloves. Otherwise, no hand protection necessary.

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

PVC gloves

· **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:** Not required.

### 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Fluid
<b>Color:</b>	Brown
<b>Odor:</b>	Weak, characteristic

· **Change in condition**

**Melting point/Melting range:** ca. 10°C (ca. 50°F)

**Boiling point/Boiling range:** > 260°C (> 500°F)

· **Flash point:** > 200°C (> 392°F)

· **Ignition temperature:** 600°C (1112°F)

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- **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
- **Density at 20°C (68°F):** 1.13 g/cm<sup>3</sup> (EN ISO 2811-1)
- **Solubility in / Miscibility with Water:** *Not miscible or difficult to mix.*
- **Viscosity:**
- **Dynamic at 20°C (68°F):** 150 mPas (ISO 2555)

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
*No decomposition if used according to specifications.*
- **Dangerous reactions** *No dangerous reactions known.*
- **Dangerous products of decomposition:** *No dangerous decomposition products known.*

### 11 Toxicological information

- **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:**  
*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*

### 12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** *The product is difficultly biodegradable.*
- **Ecotoxicological effects:**
- **Acquatic 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)

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*LC50/96h >1.000 mg/l (Danio rerio)*

**· 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.*

### 13 Disposal considerations

**· Product:**

**· 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

**· DOT regulations:**

**· Hazard class:** -

**· Land transport ADR/RID (cross-border):**

**· ADR/RID class:** -

**· Remarks:** *not regulated*

**· Maritime transport IMDG:**

**· IMDG Class:** -

**· Marine pollutant:** *No*

**· Remarks:** *not regulated*

**· Air transport ICAO-TI and IATA-DGR:**

**· ICAO/IATA Class:** -

**· Remarks:** *not regulated*

**· UN "Model Regulation":** -

**· Transport/Additional information:** *Not dangerous according to the above specifications.*

### 15 Regulations

**· Sara**

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

*None of the ingredient is listed.*

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

*9016-87-9 diphenylmethanediisocyanate, isomeres and homologues*

**· 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.*

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· **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.*

· **Carcinogenity categories**

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

*9016-87-9 diphenylmethanediisocyanate, isomeres and homologues: Group 3 Vol 19, Suppl 7 1987*

· **NTP (National Toxicology Program)**

*None of the ingredients is listed.*

· **Product related hazard informations:**

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

· **Hazard symbols:**



Xn Harmful

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

*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 out of the reach of children.*

*Do not breathe fumes / aerosol*

*Avoid contact with skin.*

*In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

*Do not empty into drains.*

*Wear suitable 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:**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **VOC:**

· **VOC (USA):** 0,0 g/l / 0,0 lb/gl

## 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

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**Trade name: PS 205 Casting Resin / A**

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**Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)*

*LD50: Lethal dose, 50 percent*

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## 1 Identification of substance

- **Product details**
- **Trade name: PS 205 CRACK FILLER B**
- **Application of the substance / the preparation** Reaction resin
- **Manufacturer/Supplier:**  
Loba-Wakol LLC  
1604 N. Main St.  
Kannapolis, N.C. 28081, USA (800) 230-6465
- **Information department:** Industrial Safety Department
- **Emergency information:** Infotrac +1 352 323 3500

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**  
1344-09-8 Silicic acid, sodium salt 50-100%  
Warning: ⚠ 3.2/2, 3.3/2A, 3.8/3

## 3 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment:**  
The product has to be labelled due to the calculation procedure of international guidelines.  
Irritating to eyes and skin.
- **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 = 1  
Fire = 0  
Reactivity = 0

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



HEALTH 1 Health = 1  
FIRE 0 Fire = 0  
REACTIVITY 0 Reactivity = 0

- **GHS label elements**



Warning

- 3.2/2 - Causes skin irritation.
- 3.3/2A - Causes serious eye irritation.

- **Prevention:**

Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

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**Trade name: PS 205 CRACK FILLER B**

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· **Response:**

*IF ON SKIN: Wash with plenty of soap and water.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*Specific treatment (see label).*

*If skin irritation occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Take off contaminated clothing and wash before reuse.*

### 4 First aid measures

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

· **After inhalation:** *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.*

### 5 Fire fighting measures

· **Suitable extinguishing agents:** *Water*

· **Protective equipment:** *No special measures required.*

### 6 Accidental release measures

· **Person-related safety precautions:**

*Wear protective clothing.*

*Particular danger of slipping on leaked/spilled product.*

*Wear protective equipment. Keep unprotected persons away.*

· **Measures for environmental protection:**

*Prevent seepage into sewage system, workpits and cellars.*

*Do not allow to enter sewers/ surface or ground water.*

· **Measures for cleaning/collecting:**

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Use neutralizing agent.*

*Dispose contaminated material as waste according to item 13.*

*Ensure adequate ventilation.*

### 7 Handling and storage

· **Handling:**

· **Information for safe handling:** *Open and handle receptacle with care.*

· **Information about protection against explosions and fires:** *No special measures required.*

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** *No special requirements.*

· **Information about storage in one common storage facility:** *Not required.*

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**Trade name: PS 205 CRACK FILLER B**

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· **Further information about storage conditions:** *Keep receptacle tightly sealed.*

### 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:**  
*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.*
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
*Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.*
- **Breathing equipment:** *Not required.*
- **Protection of hands:**  
*Preventive skin protection by use of skin-protecting agents is recommended.  
For direct contact with liquid adhesive (for example cleaning works): protective gloves. Otherwise, no hand protection necessary.*
- **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:** *Not required.*

### 9 Physical and chemical properties

#### · General Information

<b>Form:</b>	<i>Fluid</i>
<b>Color:</b>	<i>Colorless</i>
<b>Odor:</b>	<i>Characteristic</i>

#### · Change in condition

**Melting point/Melting range:** *Undetermined.*  
**Boiling point/Boiling range:** *Undetermined.*

- **Flash point:** *Not applicable.*
- **Auto igniting:** *Product is not selfigniting.*
- **Danger of explosion:** *Product does not present an explosion hazard.*
- **Density at 20°C (68°F):** *1.48 g/cm<sup>3</sup> (EN ISO 2811-1)*
- **Solubility in / Miscibility with Water:** *Not miscible or difficult to mix.*

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- **Viscosity:**  
*Dynamic at 20°C (68°F): 270 mPas (ISO 2555)*

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
*No decomposition if used according to specifications.*
- **Dangerous reactions**  
*Reacts with light alloys to form hydrogen.  
Strong exothermic reaction with acids.*
- **Dangerous products of decomposition:** *No dangerous decomposition products known.*

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
  - *on the skin:* Irritant to skin and mucous membranes.
  - *on the eye:* Irritating effect.
- **Sensitization:** *No sensitizing effects known.*
- **Additional toxicological information:**  
*The product shows the following dangers according to internally approved calculation methods for preparations:*  
*Irritant*

### 12 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.  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.*

### 13 Disposal considerations

- **Product:**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

### 14 Transport information

- **DOT regulations:**
- **Hazard class:** -

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- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Remarks:** not regulated
  
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Remarks:** not regulated
  
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Remarks:** not regulated
- **UN "Model Regulation":** -
  
- **Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):**  
None of the ingredient is listed.
- **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.
  
- **Carcinogenity categories**
- **IARC (International Agency for Research on Cancer)**  
None of the ingredients is listed.
- **NTP (National Toxicology Program)**  
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:**



Xi Irritant

- **Risk phrases:**  
Irritating to eyes and skin.

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· **Safety phrases:**

*Keep out of the reach of children.*

*Do not breathe fumes / aerosol*

*Avoid contact with skin and eyes.*

*In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

*Take off immediately all contaminated clothing.*

*Wear suitable gloves.*

· **National regulations:**

*The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.*

· **Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

· **VOC:**

· **VOC (USA):** *0,0 g/l / 0,0 lb/gl*

### 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*

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)*

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