

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2014

Reviewed on 10/29/2014

1 Identification

- **Product identifier** Wood Flooring Adhesive
- **Trade name:** STAUF PIC-850
- **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**
- **Distributor:**
STAUF USA, LLC.
11121 Hwy 70 Suite 102
Arlington, TN 38002, USA
Phone 1-901-820-0007
Fax 1-901-820-0101

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.



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.

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2014

Reviewed on 10/29/2014

Trade name: STAUF PIC-850

(Contd. of page 1)

Do not empty into drains.
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 = 0
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.
- **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:**
CO₂, 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 10/29/2014

Reviewed on 10/29/2014

Trade name: STAUF PIC-850

(Contd. of page 2)

- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **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

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid contact with the eyes.
- **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 ³ , 0.02 ppm
REL	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min
TLV	Long-term value: 0.051 mg/m ³ , 0.005 ppm

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

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2014

Reviewed on 10/29/2014

Trade name: STAUF PIC-850

(Contd. of page 3)

- **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>	Fluid
<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/cm³ (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.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2014

Reviewed on 10/29/2014

Trade name: STAUF PIC-850

(Contd. of page 4)

- **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)

- *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)
------	--

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2014

Reviewed on 10/29/2014

Trade name: STAUF PIC-850

(Contd. of page 5)

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

- **Persistence and degradability** No further relevant information available.
- **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:**
Liquid product must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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.

(Contd. on page 7)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2014

Reviewed on 10/29/2014

Trade name: STAUF PIC-850

(Contd. of page 6)

<ul style="list-style-type: none"> • <i>Chemicals known to cause reproductive toxicity for females:</i>
--

None of the ingredients is listed.

<ul style="list-style-type: none"> • <i>Chemicals known to cause reproductive toxicity for males:</i>
--

None of the ingredients is listed.

<ul style="list-style-type: none"> • <i>Chemicals known to cause developmental toxicity:</i>

None of the ingredients is listed.

<ul style="list-style-type: none"> • <i>Canadian Ingredient disclosure list</i>
--

<ul style="list-style-type: none"> • <i>Limit 0,1%</i>

None of the ingredients is listed.

<ul style="list-style-type: none"> • <i>Limit 1%</i>

None of the ingredients is listed.

<ul style="list-style-type: none"> • <i>Carcinogenicity categories</i>

<ul style="list-style-type: none"> • <i>EPA (Environmental Protection Agency)</i>
--

101-68-8	diphenylmethane-4,4'-di-isocyanate	D, CBD
----------	------------------------------------	--------

<ul style="list-style-type: none"> • <i>TLV (Threshold Limit Value established by ACGIH)</i>

None of the ingredients is listed.

<ul style="list-style-type: none"> • <i>MAK (German Maximum Workplace Concentration)</i>

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

<ul style="list-style-type: none"> • <i>NIOSH-Ca (National Institute for Occupational Safety and Health)</i>

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

- **Contact:**

Dr. Frank Gahlmann +49-(0)2739-301165 gahlmann@stauf.de
 Wolfgang Stauf, Phone 901-820-0007, Email wolfgang.stauf@staufusa.com

- *Date of preparation / last revision* 10/29/2014 / -

- *Abbreviations and acronyms:*

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