

1 Identification

- **Product identifier**
- **Trade name:** STAUF R741
- **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**
- **Manufacturer:**
STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
Phone 01149-273-930-1100
Fax 01149-273-930-1200
- **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.
 Carc. 2 H351 Suspected of causing cancer.
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Irritant

May cause sensitization by inhalation and skin contact.

- *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**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- *Hazard pictograms*



GHS08

Trade name: STAUF R741

(Contd. of page 1)

- *Signal word* Danger
- *Hazard-determining components of labeling:*
Polypropylenglycol, Diphenylmethandiisocyanat Polymer
diphenylmethane-4,4'-di-isocyanante
diphenylmethane-2,4'-diisocyanate
Aromatisches Polyisocyanat-Prepolymer
- *Hazard statements*
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
- *Precautionary statements*
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P284 Wear respiratory protection.
P280 Wear protective gloves.
P280 Wear eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see on this label).
P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **WHMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = *1
FIRE	1	Fire = 1
REACTIVITY	0	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:**

39420-98-9	Polypropylenglycol, Diphenylmethandiisocyanat Polymer	2.5-10%
101-68-8	diphenylmethane-4,4'-di-isocyanante	≤ 2.5%
5873-54-1	diphenylmethane-2,4'-diisocyanate	≤ 2.5%
67815-87-6	Aromatisches Polyisocyanat-Prepolymer	≤ 2.5%

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

US

(Contd. on page 3)

Trade name: STAUF R741

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **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:**
If skin irritation continues, consult a doctor.
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:** Do not induce vomiting; immediately call for medical help.
- **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:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

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.
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.

(Contd. on page 4)

Trade name: STAUF R741

(Contd. of page 3)

- **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.
- **Exposure controls**
- **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.
 - *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
PVC gloves
Rubber gloves
Nitrile rubber, NBR
 - *As protection from splashes gloves made of the following materials are suitable:* Natural rubber, NR
 - *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>	Solid
<i>Color:</i>	Cream colored
<i>Odor:</i>	Characteristic
<i>Odour threshold:</i>	Not determined.

· **pH-value:** Not determined.

(Contd. on page 5)

Trade name: STAUF R741

(Contd. of page 4)

- **Change in condition**
Boiling point/Boiling range: Undetermined.
- **Flash point:** 212 °C (414 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 520 °C (968 °F)
- *Decomposition temperature:* Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
Lower: Not determined.
Upper: Not determined.
- **Vapor pressure:** Not determined.
- **Density at 20 °C (68 °F):** 1.4 g/cm³ (11.683 lbs/gal)
- *Relative density* Not determined.
- *Vapour density* Not determined.
- *Evaporation rate* Not determined.
- **Solubility in / Miscibility with**
Water: Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
Dynamic at 20 °C (68 °F): 100000 mPas
Kinematic: Not determined.
- **Solvent content:**
Organic solvents: 0.0 %
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** 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)
------	------	---

(Contd. on page 6)

Trade name: STAUF R741

(Contd. of page 5)

Dermal	LD50	>9400 mg/kg (rab) (OECD- Prüfrichtlinie 402)
Inhalative	LC50/ 4h	0.368 mg/l (Ratte)
5873-54-1 diphenylmethane-2,4'-diisocyanate		
Oral	LD50	> 2000 mg/kg (Ratte) (Richtlinie 84/449/EWG, B.1)
Dermal	LD50	> 9400 mg/kg (rab) (OECD- Prüfrichtlinie 402)
Inhalative	LC50	0.31 mg/l (Ratte) (4h, Aerosol)
67815-87-6 Aromatisches Polyisocyanat-Prepolymer		
Oral	LD50	≥ 5000 mg/kg (Ratte) (OECD- Prüfrichtlinie 423)

- **Primary irritant effect:**
- *on the skin:* No irritant effect.
- *on the eye:* No 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
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
101-68-8	diphenylmethane-4,4'-di-isocyanate	3
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:**

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

EC50	>1000 mg/l (Daphnia magna Wasserfloh) (OECD- Prüfrichtlinie 202)
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.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:** keine
- **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.

(Contd. on page 7)

Printing date 03/24/2017

Reviewed on 03/24/2017

Trade name: STAUF R741

- **Other adverse effects** No further relevant information available.

(Contd. of page 6)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** If product has aged or solidified conventional means of disposal are acceptable.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Void
- **Packing group**
- **DOT, ADR, IMDG, IATA** Void
- **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.
- **UN "Model Regulation":** -

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):*

1317-65-3 | calciumcarbonate

92704-41-1 | Kaolin, calciniert, Aluminiumsilicat
Dorkafill 600, Dorkafill H

39420-98-9 | Polypropylenglycol, Diphenylmethandiisicyanat Polymer

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

5873-54-1 | diphenylmethane-2,4'-diisocyanate

1305-78-8 | calcium oxide

68611-44-9 | Kieselsäure hydrophobiert hochdisperse

125643-61-0 | A mixture of isomers of: C7-9-alkyl-3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate

67815-87-6 | Aromatisches Polyisocyanat-Prepolymer

(Contd. on page 8)

Trade name: STAUF R741

(Contd. of page 7)

· *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.

· *Canadian Ingredient disclosure list*

· *Limit 0,1%*

None of the ingredients is listed.

· *Limit 1%*

None of the ingredients is listed.

· *Carcinogen categories*

· *EPA (Environmental Protection Agency)*

101-68-8	diphenylmethane-4,4'-di-isocyanate	D, CBD
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD

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

None of the ingredients is listed.

· *MAK (German Maximum Workplace Concentration)*

101-68-8	diphenylmethane-4,4'-di-isocyanate	4
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	4

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

None of the ingredients is listed.

· **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** 03/24/2017 / 47

· **Abbreviations and acronyms:**

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2