

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 06/11/2025

Version number 48

Revision: 06/11/2025

### 1 Identification

- **Product identifier**
- **Trade name:** Excelsior U-705
- *Application of the substance / the mixture* Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer:**  
RHC  
1602 N. Union St.  
Fostoria, OH 44830  
Phone (844) 393 - 4044  
Fax (419) 436 - 2482

### 2 Hazard identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Respiratory Sensitizer - Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity – Category 2

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure - Category 2

H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- *Hazard pictograms*



GHS08

- *Signal word* Danger
- *Hazard-determining components of labelling:*  
Polypropylenglycol, Diphenylmethandiisocyanat Polymer  
diphenylmethane-4,4'-di-isocyanate  
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/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 [In case of inadequate ventilation] wear respiratory protection.

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P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/Information on ingredients

- **Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

39420-98-9	Polypropylenglycol, Diphenylmethandiisocyanat Polymer	1-5% w/w *
101-68-8	diphenylmethane-4,4'-di-isocyanate	0.1-1% w/w *
5873-54-1	diphenylmethane-2,4'-diisocyanate	0.1-1% w/w *
67815-87-6	Aromatisches Polyisocyanat-Prepolymer	0.1-1% w/w *

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

### 4 First-aid measures

- **Description of first aid measures**

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

- **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.

Immediately rinse with water.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** Do not induce vomiting; call for medical help immediately.

- **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>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**

- **Protective equipment:**

Do not inhale explosion gases or combustion gases.

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Mount respiratory protective device.

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### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

- **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 section 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.

Open and handle receptacle with care.

Prevent formation of aerosols.

- **Information about fire - and explosion protection:** Keep respiratory protective device available.

- **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:* Keep container tightly sealed.

- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

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

- **Control parameters**

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

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

EL	TWA: 0.005 ppm Ceiling: 0.01 ppm S(R)
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EV	TWA: 0.005 ppm Ceiling: 0.02 ppm
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**5873-54-1 diphenylmethane-2,4'-diisocyanate**

EL	TWA: 0.005 ppm Ceiling: 0.01 ppm
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- **Additional information:** The lists valid during the making were used as basis.

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- **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.  
Store protective clothing separately.
  - *Respiratory protection:*  
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:*



Tightly sealed goggles

- *Body protection:* Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
  - *Appearance:*

Form:	Solid
Colour:	Cream coloured
  - *Odour:* Characteristic
  - *Odour threshold:* Not determined.
  - **pH-value:** Not determined.
  - **Change in condition**
    - *Melting point/freezing point:* Undetermined.
    - *Initial boiling point and boiling range:* Undetermined.
  - **Flash point:** 212 °C
  - **Flammability** Not applicable.
  - **Auto-ignition temperature:** 520 °C
  - *Decomposition temperature:* Not determined.
  - **Ignition temperature:** Product is not selfigniting.
  - **Explosive properties:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - *Lower:* Not determined.
    - *Upper:* Not determined.
  - **Vapour pressure:** Not determined.

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- **Density at 20 °C:** 1.4 g/cm<sup>3</sup>
- *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:* 100,000 mPas
  - Kinematic:* Not determined.
- **Solvent content:**
  - VOC EU* 0.00 %
  - 0.00 %
  - Solids content:* 45.5 %
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **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 relevant for classification:*

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

Oral	LD50	>2,000 mg/kg (Ratte) (Richtlinie 84/449/EWG, B.1)
Dermal	LD50	>9,400 mg/kg (rab) (OECD- Prüfrichtlinie 402)
Inhalative	LC50/ 4h	0.368 mg/l (Ratte)

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

Oral	LD50	>2,000 mg/kg (Ratte) (Richtlinie 84/449/EWG, B.1)
Dermal	LD50	>9,400 mg/kg (rab) (OECD- Prüfrichtlinie 402)
Inhalative	LC50	0.31 mg/l (Ratte) (4h, Aerosol)

### 67815-87-6 Aromatisches Polyisocyanat-Prepolymer

Oral	LD50	≥5,000 mg/kg (Ratte) (OECD- Prüfrichtlinie 423)
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- *Primary irritant effect:*
- *Skin corrosion/irritation* No irritant effect.
- *Serious eye damage/irritation* No irritating effect.

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- **Respiratory or skin sensitisation**  
Sensitisation possible through inhalation.  
Sensitisation possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Carcinogenicity – Category 2

## 12 Ecological information

### · **Toxicity**

#### · **Aquatic toxicity:**

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

LC50/ 96h	>1,000 mg/l (Danio rerio (Zebraabärbling)) (OECD- Prüfrichtlinie 203)
EC50	>1,000 mg/l (Daphnia magna Wasserfloh) (OECD- Prüfrichtlinie 202)
NOEC	>10 mg/l (Daphnia magna Wasserfloh) (OECD- Prüfrichtlinie 202 (Fortpflanzung))

- **Persistence and degradability** No further relevant information available.
- **Behaviour 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 (German Regulation) (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 together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void

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- **Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- *Class* Void
- **Packing group**
- **ADR, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** Void

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- *Technical instructions (air):*

Class	Share in %
I	0.5-1.5
- **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:** Wolfgang Stauf, Phone 901-820-0007, Email wolfgang.stauf@staufusa.com
- **Date of the latest revision of the safety data sheet** 06/11/2025 / -

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