

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2024

Reviewed on 10/03/2024

## 1 Identification

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

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Sensitization - Respiratory 1

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

Carcinogenicity 2

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure 2

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



GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

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

- *Hazard pictograms*



GHS08

- *Signal word* Danger

- *Hazard-determining components of labeling:*

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/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

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

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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.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

· **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:**

39420-98-9	Polypropylenglycol, Diphenylmethandiisocyanat Polymer	2.5-10%
101-68-8	diphenylmethane-4,4'-di-isocyanate	≤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 hazard phrases refer to section 16.

### 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.

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; immediately call for medical help.· **Information for doctor:**· *Most important symptoms and effects, both acute and delayed* No further relevant information available.

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- 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.  
Use fire fighting measures that suit the environment.
- **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.  
Mount respiratory protective device.

### 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.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

101-68-8	diphenylmethane-4,4'-di-isocyanate	0.45 mg/m <sup>3</sup>
1305-78-8	calcium oxide	6 mg/m <sup>3</sup>
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	0.15 mg/m <sup>3</sup>

- **PAC-2:**

101-68-8	diphenylmethane-4,4'-di-isocyanate	5 mg/m <sup>3</sup>
1305-78-8	calcium oxide	42 mg/m <sup>3</sup>
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3.6 mg/m <sup>3</sup>

- **PAC-3:**

101-68-8	diphenylmethane-4,4'-di-isocyanate	55 mg/m <sup>3</sup>
1305-78-8	calcium oxide	250 mg/m <sup>3</sup>
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	22 mg/m <sup>3</sup>

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### 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 protection against explosions and fires:** 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 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 section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

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

PEL	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV	Long-term value: 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.  
Store protective clothing separately.
- *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

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· *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:*

<i>Form:</i>	Solid
<i>Color:</i>	Cream colored
· <i>Odor:</i>	Characteristic
· <i>Odor threshold:</i>	Not determined.

· **pH-value:** Not determined.

#### · **Change in condition**

<i>Boiling point/Boiling range:</i>	Undetermined.
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· **Flash point:** 212 °C (413.6 °F)· **Flammability:** Not applicable.· **Auto igniting:** 520 °C (968 °F)· *Decomposition temperature:* Not determined.· **Ignition temperature:** 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):** 1.4 g/cm<sup>3</sup> (11.683 lbs/gal)· *Relative density* Not determined.· *Vapor density* Not determined.· *Evaporation rate* Not determined.

#### · **Solubility in / Miscibility with**

<i>Water:</i>	Not miscible or difficult to mix.
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· **Partition coefficient (n-octanol/water):** Not determined.

#### · **Viscosity:**

<i>Dynamic at 20 °C (68 °F):</i>	100,000 mPas
<i>Kinematic:</i>	Not determined.

#### · **Solvent content:**

<i>VOC Content:</i>	0.00 %
	0.00 %

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· **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 that are 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:**
- *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.

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· **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**

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.

· **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.

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

## 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.

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**Trade name:** Excelsior U-705· **UN "Model Regulation":**

Void

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## 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	ACTIVE
92704-41-1	Kaolin, calciniert, Aluminiumsilicat Dorkafill 600, Dorkafill H	ACTIVE
39420-98-9	Polypropylyenglycol, Diphenylmethandiisocyanat Polymer	ACTIVE
101-68-8	diphenylmethane-4,4'-di-isocyanate	ACTIVE
5873-54-1	diphenylmethane-2,4'-diisocyanate	ACTIVE
1305-78-8	calcium oxide	ACTIVE
68611-44-9	Kieselsäure hydrophobiert hochdisperse	ACTIVE
67815-87-6	Aromatisches Polyisocyanat-Prepolymer	ACTIVE
125643-61-0	A mixture of isomers of: C7-9-alkyl-3-(3,5-di-trans-butyl-4-hydroxyphenyl) propionate	ACTIVE

· *Hazardous Air Pollutants*

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

· *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.

· *Carcinogenicity 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)*

None of the ingredients is listed.

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· **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:** Wolfgang Stauf, Phone 901-820-0007, Email wolfgang.stauf@staufusa.com

· **Date of preparation / last revision** 10/03/2024 / -

· **Abbreviations and acronyms:**

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

US