

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 05.12.2022, Revision 05.12.2022

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

#### HENSOTOP 2K PU Härter

Registration number	01-2119488934-20-XXXX
IUPAC	Hexane, 1,6-diisocyanato-, homopolymer
EINECS/ELINCS	931-297-3
CAS	28182-81-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant uses

Top coat

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

Company	Rudolf Hensel GmbH Lauenburger Landstr. 11 21039 Börnsen / GERMANY Phone +49 (0)40-72 10 62 10 Fax +49 (0)40-72 10 62 52 Homepage <a href="http://www.rudolf-hensel.de">www.rudolf-hensel.de</a> E-mail <a href="mailto:info@rudolf-hensel.de">info@rudolf-hensel.de</a>
Address enquiries to	
Technical information	<a href="mailto:info@rudolf-hensel.de">info@rudolf-hensel.de</a>
Safety Data Sheet	<a href="mailto:sdb@chemiebuero.de">sdb@chemiebuero.de</a> (No dispatch of safety data sheets) Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

Company	+49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00)
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Skin Sens. 1: H317 May cause an allergic skin reaction.  
Acute Tox. 4: H332 Harmful if inhaled.  
STOT SE 3: H335 May cause respiratory irritation.

### 2.2 Label elements

#### Hazard pictograms



Signal word WARNING

Contains: Hexane, 1,6-diisocyanato-, homopolymer EINECS: 931-297-3

Hazard statements  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

Precautionary statements  
P261 Avoid breathing vapours.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P312 Call a POISON CENTER / doctor if you feel unwell.

Special labelling  
EUH204 Contains isocyanates. May produce an allergic reaction.

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## 2.3 Other hazards

Human health dangers	Contains no ingredients with endocrine-disrupting properties.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

The product is a substance.

Range [%]	Substance
~ 100	Hexane, 1,6-diisocyanato-, homopolymer CAS: 28182-81-2, EINECS/ELINCS: 931-297-3, Reg-No.: 01-2119488934-20-XXXX GHS/CLP: Acute Tox. 4: H332 - STOT SE 3: H335 - Skin Sens. 1: H317
<0.1	Hexamethylene-diisocyanate CAS: 822-06-0, EINECS/ELINCS: 212-485-8, EU-INDEX: 615-011-00-1, Reg-No.: 01-2119457571-37-XXXX GHS/CLP: Acute Tox. 4: H302 - Acute Tox. 1: H330 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Skin Sens. 1: H317 SCL [%]: >=0.5: Resp. Sens. 1: H334, >=0.5: Skin Sens. 1: H317

Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.
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### 3.2 Mixtures

not applicable

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

### 4.2 Most important symptoms and effects, both acute and delayed

Irritant effects  
Allergic reactions

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	Water spray jet. Carbon dioxide. Foam. Dry powder.
Extinguishing media that must not be used	Full water jet.

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## 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>).  
Hydrogen cyanide (HCN).

## 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (protective gloves, safety glasses, protective clothing).  
Ensure adequate ventilation.

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

## 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).  
Dispose of absorbed material in accordance with the regulations.

## 6.4 Reference to other sections

See SECTION 8+13

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Provide suitable vacuuming at the processing machines and in the processing area.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Ingredients with occupational  
exposure limits to be monitored (GB)

Substance
Hexamethylene-diisocyanate
CAS: 822-06-0, EINECS/ELINCS: 212-485-8, EU-INDEX: 615-011-00-1, Reg-No.: 01-2119457571-37-XXXX
Long-term exposure: 0,02 mg/m <sup>3</sup> , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m <sup>3</sup>
Hexane, 1,6-diisocyanato-, homopolymer
CAS: 28182-81-2, EINECS/ELINCS: 931-297-3, Reg-No.: 01-2119488934-20-XXXX
Long-term exposure: 0,02 mg/m <sup>3</sup> , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m <sup>3</sup>

#### DNEL

Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
Industrial, inhalative, Long-term - local effects, 0.035 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 0.07 mg/m <sup>3</sup>
Hexane, 1,6-diisocyanato-, homopolymer
Industrial, inhalative, Long-term - local effects, 0.5 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 1 mg/m <sup>3</sup>

#### PNEC

Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
soil, 0.523 mg/kg soil dw
sediment (seawater), 0.067 mg/kg sediment dw
sediment (freshwater), 0.674 mg/kg sediment dw
seawater, 0.005 mg/L
freshwater, 0.049 mg/L
sewage treatment plants (STP), 8.42 mg/l
Hexane, 1,6-diisocyanato-, homopolymer
sewage treatment plants (STP), 100 mg/l
soil, 505 mg/kg
sediment (seawater), 253 mg/kg
sediment (freshwater), 2530 mg/kg
seawater, 0.01 mg/L
freshwater, 0.1 mg/L

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0.5mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Form</b>	liquid
<b>Color</b>	colourless
<b>Odor</b>	faintly
<b>Odour threshold</b>	not determined
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not determined
<b>Flash point [°C]</b>	203
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	< 0.000001 (20°C)
<b>Density [g/cm³]</b>	1.15 (20 °C / 68,0 °F)
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble reacts with water
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	ca. 8.38
<b>Kinematic viscosity</b>	ca. 958 mPa.s (20°C)
<b>Relative vapour density</b>	not relevant
<b>Evaporation speed</b>	not relevant
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature</b>	ca. 440
<b>Decomposition temperature [°C]</b>	ca. 150
<b>Particle characteristics</b>	not relevant

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## 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Reactions with water, with formation of carbon dioxide.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

Water

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
LD50, oral, Rat, 746 mg/kg bw
Hexane, 1,6-diisocyanato-, homopolymer
LD50, oral, Rat, > 2000 mg/kg (OECD 423)

#### Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
LD50, dermal, Rat, > 7000 mg/kg bw
Hexane, 1,6-diisocyanato-, homopolymer
LD50, dermal, Rat, > 2000 mg/kg (OECD 402)
LD50, dermal, Rabbit, > 2000 mg/kg

#### Acute inhalational toxicity

Product
ATE-mix, inhalativ (mist), 1 - <5 mg/l 4h
Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
LC50, inhalative, Rat, 0.124 mg/l 4h
NOAEL, inhalative, Rat, < 0.055 mg/l
Hexane, 1,6-diisocyanato-, homopolymer
LC50, inhalative, Rat (female), 0.390 mg/l/4h (OECD 403)
Conversion value, inhalativ (mist), 1.5 mg/l/4h

#### Serious eye damage/irritation Non-corrosive / non-irritating.

Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
Eye, irritant
Hexane, 1,6-diisocyanato-, homopolymer
Eye, non-irritating

#### Skin corrosion/irritation Non-corrosive / non-irritating.

Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
dermal, irritant
Hexane, 1,6-diisocyanato-, homopolymer

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dermal, non-irritating

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

Substance

Hexamethylene-diisocyanate, CAS: 822-06-0

inhalative, sensitising

dermal, sensitising

Hexane, 1,6-diisocyanato-, homopolymer

dermal, sensitising

**Specific target organ toxicity — single exposure** May cause respiratory irritation.

Substance

Hexamethylene-diisocyanate, CAS: 822-06-0

inhalative, irritant

Hexane, 1,6-diisocyanato-, homopolymer

inhalative, irritant

**Specific target organ toxicity — repeated exposure** No classification.

Substance

Hexamethylene-diisocyanate, CAS: 822-06-0

NOAEC, oral, Rat, 35 µg/m³ (chronic), The effects observed are not sufficient for classification.

Hexane, 1,6-diisocyanato-, homopolymer

NOAEC, oral, Rat, 3.3 mg/m³ (subchronic), The effects observed are not sufficient for classification.

**Mutagenicity** There is no evidence of any mutagenic effects.

Substance

Hexamethylene-diisocyanate, CAS: 822-06-0

in vivo, no adverse effect observed

in vitro, no adverse effect observed

**Reproduction toxicity** There is no evidence of any reproductive toxicity effects.

Substance

Hexamethylene-diisocyanate, CAS: 822-06-0

NOAEC, inhalative, Rat, 2.03 mg/m³ (subchronic), no adverse effect observed

**Carcinogenicity** There is no evidence of any carcinogenic effects.

Substance

Hexamethylene-diisocyanate, CAS: 822-06-0

NOAEC, inhalative, Rat, 1.15 mg/m³ (chronic), no adverse effect observed

**Aspiration hazard** No classification.

**General remarks**

none

## 11.2 Information on other hazards

**Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**Other information**



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## SECTION 12: Ecological information

### 12.1 Toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

Substance

Hexamethylene-diisocyanate, CAS: 822-06-0

EC50, (72h), *Desmodesmus subspicatus*, > 77.4 mg/l (IUCLID)

LC0, (96h), *Brachidanio rerio*, > 82.8 mg/l (IUCLID)

Hexane, 1,6-diisocyanato-, homopolymer

EC50, (3h), Bacteria, > 10 000 mg/L

EL0, (48h), *Daphnia magna*, >= 100 mg/L

LL50, (96h), *Danio rerio*, > 100 mg/L

ErL50, (72h), *Desmodesmus subspicatus*, 199 mg/L

### 12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

None known.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

Dispose of as hazardous waste.  
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080501\*

##### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110\* packaging containing residues of or contaminated by hazardous substances

### SECTION 14: Transport information

#### 14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) 0 %

#### 15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H330 Fatal if inhaled.  
H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H332 Harmful if inhaled.

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## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

Skin Sens. 1: H317 May cause an allergic skin reaction. (On basis of test data)  
Acute Tox. 4: H332 Harmful if inhaled. (On basis of test data)  
STOT SE 3: H335 May cause respiratory irritation. (On basis of test data)

### Modified position

SECTION 2 deleted: Hexamethylene-diisocyanate  
SECTION 3 been added: Hexamethylene-diisocyanate  
SECTION 3 deleted: Hexamethylene-diisocyanate  
SECTION 2 deleted: - - - - -  
As from 24 August 2023 adequate training is required before industrial or professional use.  
- - - - -  
SECTION 15 deleted: As from 24 August 2023: The employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

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