

Rudolf Hensel GmbH
21039 Börnsen

Date printed 15.04.2024, Revision 19.07.2023

Version 5.0. Supersedes version: 4.0

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

1.1 Product identifier

HENSOTOP 2K PU Hardener

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

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 www.rudolf-hensel.de
E-mail info@rudolf-hensel.de

Address enquiries to

Technical information info@rudolf-hensel.de
Safety Data Sheet sdb@chemiebuero.de (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 CET), +49 (0)172 4115390 (17:00 - 07:00 CET)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

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
	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: Skin Sens. 1: H317, >=0,5: Resp. Sens. 1: H334

Comment on component parts For full text of H-statements: see SECTION 16.

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_x).
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.

storage class (TRGS 510)

Storage class 10 (VCI)

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 DE (TRGS 900)

Substance
Hexamethylene-diisocyanate
CAS: 822-06-0, EINECS/ELINCS: 212-485-8, EU-INDEX: 615-011-00-1, Reg-No.: 01-2119457571-37-XXXX
Exposure limit: 0,005 ppm, 0,035 mg/m ³ , DFG, 12,11, Sa
Factor: 1;=2=(I)
Hexane, 1,6-diisocyanato-, homopolymer
EINECS/ELINCS: 931-297-3, Reg-No.: 01-2119488934-20-XXXX
Exposure limit: 0,005 ppm, 0,035 mg/m ³ , DFG, 12,11, Sa
Factor: 1;=2=(I)

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
Industrial, inhalative, Acute - local effects, 0,07 mg/m ³
Industrial, inhalative, Long-term - local effects, 0,035 mg/m ³
Hexane, 1,6-diisocyanato-, homopolymer
Industrial, inhalative, Acute - local effects, 1 mg/m ³
Industrial, inhalative, Long-term - local effects, 0,5 mg/m ³

PNEC

Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
sewage treatment plants (STP), 8,42 mg/l
freshwater, 0,049 mg/L
seawater, 0,005 mg/L
sediment (freshwater), 0,674 mg/kg sediment dw
sediment (seawater), 0,067 mg/kg sediment dw
soil, 0,523 mg/kg soil dw
Hexane, 1,6-diisocyanato-, homopolymer
freshwater, 0,1 mg/L
seawater, 0,01 mg/L
sediment (freshwater), 2530 mg/kg
sediment (seawater), 253 mg/kg
soil, 505 mg/kg
sewage treatment plants (STP), 100 mg/l



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8.2 Exposure controls

Additional advice on system design	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.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,5mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	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.
Respiratory protection	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)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	colourless
Odor	faintly
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	not determined
Flash point [°C]	203
Flammability	yes
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	< 0,000001 (20°C)
Density [g/cm ³]	1,15 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	insoluble reacts with water
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	ca. 8,38
Kinematic viscosity	ca. 958 mPa.s (20°C)
Relative vapour density	not relevant
Melting point [°C]	not determined
Auto-ignition temperature [°C]	ca. 440
Decomposition temperature [°C]	ca. 150
Particle characteristics	not relevant

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



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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, Rabbit, > 2000 mg/kg
LD50, dermal, Rat, > 2000 mg/kg (OECD 402)

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
dermal, sensitising
inhalative, 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 vitro, no adverse effect observed
in vivo, no adverse effect observed

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

- Fertility

Substance
Hexamethylene-diisocyanate, CAS: 822-06-0
NOAEC, inhalative, Rat, 2,03 mg/m³ (subchronic), no adverse effect observed

- Development

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



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Aspiration hazard No classification.
General remarks

none

11.2 Information on other hazards

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

11.2.2 Other information

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), <i>Desmodesmus subspicatus</i> , > 77,4 mg/l (IUCLID)
LC0, (96h), <i>Brachidanio rerio</i> , > 82,8 mg/l (IUCLID)
Hexane, 1,6-diisocyanato-, homopolymer
EC50, (3h), Bacteria, > 10 000 mg/L
EL0, (48h), <i>Daphnia magna</i> , >= 100 mg/L
LL50, (96h), <i>Danio rerio</i> , > 100 mg/L
Erl50, (72h), <i>Desmodesmus subspicatus</i> , 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

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SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex I (REACH)	The product is not subject to Annex I restrictions.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances \geq 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains \geq 0.1% of substances with the following restrictions. 3, 74, 75
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)
NATIONAL REGULATIONS (DE):	Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	1, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	no
- Class. according to TA-Luft	5.2.5.
Storage class (TRGS 510)	Storage class 10 (VCI)
- 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 %
- Other regulations	DGUV Information 213-079: Tätigkeiten mit Gefahrstoffen - Informationen für Beschäftigte. TRGS 401: Gefährdung durch Hautkontakt. - Ermittlung, Beurteilung, Maßnahmen. TRGS 510: Storage of hazardous substances in non-stationary containers Work medicine Principles G27: isocyanates. TRGS 430: Gefährdungsbeurteilung und Schutzmaßnahmen

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

none

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