

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : EPI HARDTOP 200/260 T/C /N
COMP. B
Revision date : 14.08.2024
Print date : 14-08-2024

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

EPI HARDTOP 200/260 T/C /N
COMP. B

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

Floor coating

1.3 Details of the supplier of the safety data sheet

Supplier

EPI Synthetic Surface Materials B.V.

Street : Duikboot 7

Postal code/City : 3991 CK Houten

Telephone : +31 30 2933664

Telefax : +31 30 2936344

Information contact : (Sales Department) Sales@epigroup.nl

1.4 Emergency telephone number

+31 30 2933664 (during office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Resp. Sens. 2 - Sensitisation to the respiratory tract : Category 2

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Corrosion (GHS05) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

HDI oligomers, isocyanurate

HEXAMETHYLENE- 1,6-DIISOCYANATE HOMOPOLYMER

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ISOPHORONEDIISOCYANATE OLIGOMERS ; CAS No. : 53880-05-0
HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER (TYPE URETDIONE)
Blocked Polyisocyanate Based on HDI ; CAS No. : 666723-27-9
HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE ; CAS No. : 4098-71-9

Hazard statements

H318 Causes serious eye damage.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P310 Immediately call a POISON CENTER/doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents / container in accordance with local regulations.

Special rules for supplemental label elements for certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.

Additional information

P302+P352 - IF ON SKIN: Wash with plenty of water/.... P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

2.4 Additional information

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

HDI oligomers, isocyanurate ; REACH No. : 01-2119485796-17 ; EC No. : 931-274-8

Weight fraction : $\geq 25 - < 50$ %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 STOT SE 3 ; H335

HEXAMETHYLENE- 1,6-DIISOCYANATE HOMOPOLYMER ; REACH No. : 01-2119488934-20 ; EC No. : 931-297-3

Weight fraction : $\geq 20 - < 25$ %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 STOT SE 3 ; H335

ISOPHORONEDIISOCYANATE OLIGOMERS ; REACH No. : 01-2119488734-24 ; EC No. : 931-312-3; CAS No. : 53880-05-0

Weight fraction : $\geq 10 - < 20$ %

Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 STOT SE 3 ; H335

POLYOXYETHYLENE TRIDECYLETHERPHOSPHATE ; EC No. : 618-558-4; CAS No. : 9046-01-9

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Weight fraction : $\geq 3 - < 10 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER (TYPE URETDIONE) ; REACH No. : 01-2119488177-26 ; EC No. : 931-288-4

Weight fraction : $\geq 2,5 - < 10 \%$

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 Skin Sens. 1 ; H317 STOT SE 3 ; H335

CYCLOHEXYLDIMETHYLAMINE ; REACH No. : 01-2119533030-60 ; EC No. : 202-715-5 ; CAS No. : 98-94-2

Weight fraction : $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Chronic 2 ; H411

Blocked Polyisocyanate Based on HDI ; EC No. : 679-494-0 ; CAS No. : 666723-27-9

Weight fraction : $\geq 0,1 - < 1 \%$

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 Skin Sens. 1 ; H317 STOT SE 3 ; H335 Aquatic Chronic 3 ; H412

HEXAMETHYLENE-DI-ISOCYANATE ; EC No. : 212-485-8 ; CAS No. : 822-06-0

Weight fraction : $\geq 0,05 - < 0,5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 1 ; H330 Resp. Sens. 1 ; H334 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 EUH204

3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE ; EC No. : 223-861-6 ; CAS No. : 4098-71-9

Weight fraction : $\geq 0,05 - < 0,5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 1 ; H330 Resp. Sens. 1 ; H334 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. No direct artificial respiration to be given by first aider. Call a physician in any case!

In case of skin contact

Wash immediately with: Water and soap Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

Following ingestion

Do NOT induce vomiting. If major quantity of dust is swallowed or inhaled, immediately drink: Water

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Headache Dizziness Nausea Diminished responsiveness Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

None

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Reacts with water.

Suitable extinguishing media

Water mist Foam Extinguishing powder Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Do not breathe gas/fumes/vapour/spray. Carbon monoxide Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3 Methods and material for containment and cleaning up

For containment

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Suitable material for taking up: Sand Absorbing material, organic

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Measures to prevent aerosol and dust generation

During filling, metering and sampling should be used if possible: Closed devices

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container. Suitable container/equipment material: Stainless steel Polyethylene (PE) Unsuitable container/equipment material: Butyl caoutchouc (butyl rubber)

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

HEXAMETHYLENE- 1,6-DIISOCYANATE HOMOPOLYMER

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Short-term

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value type : DNEL worker (local)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 1 mg/m³

Limit value type : DNEL worker (local)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,5 mg/m³

HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER (TYPE URETDIONE)

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Short-term

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value type : DNEL worker (local)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 0,7 mg/m³

Limit value type : DNEL worker (local)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,35 mg/m³

PNEC

HEXAMETHYLENE- 1,6-DIISOCYANATE HOMOPOLYMER

Limit value type : PNEC (Aquatic, freshwater)

Exposure route : Water (Including sewage plant)

Limit value : 0,1 mg/l

Limit value type : PNEC (Aquatic, intermittent release)

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Limit value :	1 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Exposure route :	Water (Including sewage plant)
Limit value :	0,01 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	2530 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	253 mg/kg
Limit value type :	PNEC (Soil)
Exposure route :	Soil
Limit value :	505 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Exposure route :	Water (Including sewage plant)
Limit value :	100 mg/l
HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER (TYPE URETDIONE)	
Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,05 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,005 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	94,5 mg/kg dry weight
Limit value type :	PNEC (Sediment, marine water)
Limit value :	9,45 mg/kg dry weight
Limit value type :	PNEC (Soil)
Limit value :	18,9 mg/kg dry weight
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	55,6 mg/l

8.2 Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas.

Personal protection equipment



Eye/face protection

Eye glasses with side protection EN 166

Skin protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. DIN-/EN-Norms EN ISO 374 EN 420 Suitable gloves type NBR (Nitrile rubber) PVA (Polyvinyl alcohol) PVC (polyvinyl chloride)

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protection apparatus Full-/half-/quarter-face masks (EN 136/140) Filtering device (full mask or mouthpiece) with filter: A

General information

Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing prior to re-use.

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Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Odour No information available.

Colour No information available.

Safety characteristics

Initial boiling point and boiling range :	(1013 hPa)	>	100	°C
Flash point :		>	100	°C
Lower explosion limit :				Vol-%
Upper explosion limit :				Vol-%
Density :	(20 °C)		1 - 1,5	g/cm ³
Odour threshold				
Physical state :	Liquid			
Melting point/freezing point :	No data available			
Freezing point :	No data available			
Decomposition temperature :	No data available			
Auto-ignition temperature :	No data available			
Vapour pressure :	No data available			
Evaporation rate :	No data available			
Water solubility :	practically insoluble			
pH :	No data available			
log P O/W :	No data available			
Viscosity :	No data available			
Relative vapour density :	No data available			

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Isocyanate containing product. Reacts with water.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

Carbon dioxide is generated with water or moisture. Exothermic reaction with: Amines, Alcohols.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

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

Corrosion

Skin corrosion/irritation

corrosive.

Serious eye damage/eye irritation

corrosive.

Irritation to respiratory tract

No data available

Respiratory or skin sensitisation

Respiratory or skin sensitisation

Skin sensitisation

sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to CLP.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to CLP.

STOT-repeated exposure

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

May cause long-term adverse effects in the environment.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

None

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Delivery to an approved waste disposal company. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 74, 75

15.2 Chemical Safety Assessment

Information from chemical safety assessments for substances in this preparation have been integrated into this safety data sheet.

SECTION 16: Other information

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.