



Rudolf Hensel GmbH  
21039 Börnsen

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

**1.1 Product identifier**

**HENSOGRUND 2K STAMM**

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

**1.2.1 Relevant uses**

Primer

**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  
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**Address enquiries to**

**Technical information**

[info@rudolf-hensel.de](mailto:info@rudolf-hensel.de)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto: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) 0172 4115390 (17:00 - 07:00)

**SECTION 2: Hazards identification**

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

Flam. Liq. 3: H226 Flammable liquid and vapour.  
Skin Irrit. 2: H315 Causes skin irritation.  
Eye Irrit. 2: H319 Causes serious eye irritation.  
Skin Sens. 1: H317 May cause an allergic skin reaction.  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

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## 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

### Hazard pictograms



### Signal word

WARNING

### Contains:

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100)

Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane

### Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe vapours / spray.

P271 Use only outdoors or in a well-ventilated area.

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

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

### 2004/42/CE

< 500 g/l II A j SB Two-pack reactive performance coatings (max. 500 g/l)

## 2.3 Other hazards

### Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.  
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

not applicable

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 20	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100) CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, Reg-No.: 01-2119456619-26-XXXX GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411 - SCL [%]: >= 5: Eye Irrit. 2: H319, >= 5: Skin Irrit. 2: H315
5 - <10	Xylene, mixture of isomers CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H312 H332 - Skin Irrit. 2: H315 - STOT RE 2: H373 - Asp. Tox. 1: H304 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Aquatic Chronic 3: H412 -
1 - 5	Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS: 68413-24-1, EINECS/ELINCS: 500-210-7 GHS/CLP: Skin Sens. 1: H317
1 - 5	1-methoxy-2-propanol CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336
1 - 5	Ethylbenzene CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4 GHS/CLP: Flam. Liq. 2: H225 - STOT RE 2: H373 - Asp. Tox. 1: H304 - Aquatic Chronic 3: H412 - Acute Tox. 4: H332
1 - 3	2-Methylpropan-1-ol CAS: 78-83-1, EINECS/ELINCS: 201-148-0, EU-INDEX: 603-108-00-1, Reg-No.: 01-2119484609-23-XXXX GHS/CLP: Flam. Liq. 3: H226 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - STOT SE 3: H335 - STOT SE 3: H336 -

Comment on component parts

For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Seek medical advice 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

Allergic reactions  
Irritant effects  
Difficulty of breathing  
Vertigo  
Headache

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

Treat symptomatically.

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## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media      Foam.  
Carbon dioxide.  
Dry powder.  
Water spray jet.

Extinguishing media that must not be used      Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

### 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.

Cool containers at risk with water spray jet.

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

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use breathing apparatus if exposed to vapours/aerosol.

High risk of slipping due to leakage/spillage of product.

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

### 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 with absorbent material (e.g. sand).

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 good room ventilation even at ground level (vapours are heavier than air).

Provide suitable vacuuming at the processing area.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Keep away from all sources of ignition - Refrain from smoking.

Use explosion-proofed equipment/fittings and non-sparkling tools.

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.

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## 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.  
Keep only in original container.  
Prevent penetration into the ground.  
  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.  
  
Keep container tightly closed.  
Keep container in a well-ventilated place.  
Protect from heat/overheating and from sun.  
Keep in a cool place. Store in a dry place.

storage class (TRGS 510)

Storage class 3 (TRGS 510)

## 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
Xylene, mixture of isomers
CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX
Exposure limit: 50 ppm, 220 mg/m <sup>3</sup> , DFG, EU, H
Factor: 2(II)
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4
Exposure limit: 20 ppm, 88 mg/m <sup>3</sup> , H, Y, DFG
Factor: 2(II)
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
Exposure limit: 100 ppm, 370 mg/m <sup>3</sup> , Y, DFG, EU
Factor: 2(I)
2-Methylpropan-1-ol
CAS: 78-83-1, EINECS/ELINCS: 201-148-0, EU-INDEX: 603-108-00-1, Reg-No.: 01-2119484609-23-XXXX
Exposure limit: 100 ppm, 310 mg/m <sup>3</sup> , Y, DFG
Factor: 1(I)

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

Substance / EC LIMIT VALUES
Xylene, mixture of isomers
CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX
Eight hours: 50 ppm, 221 mg/m <sup>3</sup> , H
Short-term (15-minute): 100 ppm, 442 mg/m <sup>3</sup>
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4
Eight hours: 100 ppm, 442 mg/m <sup>3</sup> , H
Short-term (15-minute): 200 ppm, 884 mg/m <sup>3</sup>
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
Eight hours: 100 ppm, 375 mg/m <sup>3</sup>
Short-term (15-minute): 150 ppm, 568 mg/m <sup>3</sup>

**DNEL**

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
Industrial, inhalative, Long-term - systemic effects, 221 mg/m <sup>3</sup>
Industrial, inhalative, Acute - systemic effects, 442 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 221 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 212 mg/kg bw/day
general population, oral, Long-term - systemic effects, 5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 65,3 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 260 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 65,3 mg/m <sup>3</sup>



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general population, dermal, Long-term - systemic effects, 125 mg/kg bw/day
general population, inhalative, Acute - local effects, 260 mg/m <sup>3</sup>
1-methoxy-2-propanol, CAS: 107-98-2
Industrial, inhalative (vapor), Long-term - systemic effects, 369 mg/m <sup>3</sup>
Industrial, inhalative (vapor), Acute - systemic effects, 553,5 mg/m <sup>3</sup>
Industrial, inhalative (vapor), Acute - local effects, 553,5 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 183 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 43,9 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 78 mg/kg bw/day
general population, oral, Long-term - systemic effects, 33 mg/kg bw/day
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
There are no DNEL values established for the substance.
2-Methylpropan-1-ol, CAS: 78-83-1
Industrial, inhalative, Long-term - local effects, 310 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 55 mg/m <sup>3</sup>

**PNEC**

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
freshwater, 0,044 mg/L
seawater, 0,004 mg/L
sewage treatment plants (STP), 1,6 mg/L
sediment (freshwater), 2,52 mg/kg sediment dw
sediment (seawater), 0,252 mg/kg sediment dw
soil, 0,852 mg/kg soil dw
1-methoxy-2-propanol, CAS: 107-98-2
sediment (freshwater), 52,3 mg/kg
sewage treatment plants (STP), 100 mg/L
freshwater, 10 mg/L
sediment (seawater), 5,2 mg/kg
seawater, 1 mg/L
soil, 4,59 mg/kg
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
There are no PNEC values established for the substance.
2-Methylpropan-1-ol, CAS: 78-83-1
soil, 0,076 mg/kg soil dw
freshwater, 0,4 mg/l
seawater, 0,04 mg/l
sewage treatment plants (STP), 10 mg/l
sediment (freshwater), 1,56 mg/kg sediment dw
sediment (seawater), 0,156 mg/kg sediment dw



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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>	For short-term contact: 0,4 mm Nitrile rubber, >480 min (EN 374-1/-2/-3). In full contact: 0,4 mm Fluoro 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, antistatic (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.
<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>	grey
<b>Odor</b>	solvent-like
<b>Odour threshold</b>	not determined
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point or initial boiling point and boiling range [°C]</b>	117
<b>Flash point [°C]</b>	ca. 24 (ISO 3679:2015)
<b>Flammability</b>	not applicable
<b>Lower explosion limit</b>	0,8 Vol.-%
<b>Upper explosion limit</b>	12 Vol.-%
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	6,4 (50°C)
<b>Density [g/cm³]</b>	1,7 - 1,8 (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
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	No information available.
<b>Relative vapour density</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	>290
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	not relevant



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## 9.2 Other information

Solvent-separation test: <3 % (20 °C)

## 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

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.  
Reactions with strong oxidizing agents, strong acids and alkalis.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

Strong basic compounds  
Strong oxidizing agent.  
Strong acids.

### 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
Xylene, mixture of isomers, CAS: 1330-20-7
LD50, oral, Rat, 3523 mg/kg
1-methoxy-2-propanol, CAS: 107-98-2
LD50, oral, Rat, 5000 mg/kg bw
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
LD50, oral, Rat, 15000 mg/kg
2-Methylpropan-1-ol, CAS: 78-83-1
LD50, oral, Rat, 3350 mg/kg bw
Ethylbenzene, CAS: 100-41-4
LD50, oral, Rat, 3500 mg/kg

**Acute dermal toxicity**

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Xylene, mixture of isomers, CAS: 1330-20-7
LD50, dermal, Rabbit, 12126 mg/kg
1-methoxy-2-propanol, CAS: 107-98-2
LD50, dermal, Rabbit, 13500 mg/kg bq
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
LD50, dermal, Rabbit, 23000 mg/kg
2-Methylpropan-1-ol, CAS: 78-83-1
LD50, dermal, Rabbit, 2460 mg/kg bw
Ethylbenzene, CAS: 100-41-4
LD50, dermal, Rabbit, 15354 mg/kg

**Acute inhalational toxicity**

Product
ATE-mix, inhalation (vapour), > 20 mg/l 4h
Substance
Xylene, mixture of isomers, CAS: 1330-20-7
LC50, inhalative, Rat, 27,12 mg/l (4 h)
1-methoxy-2-propanol, CAS: 107-98-2
LC50, inhalative, Rat, 6 mg/L (4h)
2-Methylpropan-1-ol, CAS: 78-83-1
LC50, inhalative, Rat, > 18,18 mg/l 6h
Ethylbenzene, CAS: 100-41-4



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LC50, inhalation (vapour), Rat, 17,2 mg/l

**Serious eye damage/irritation**

Irritant  
Based on the available information, the classification criteria are fulfilled.  
Toxicological data of complete product are not available.  
Calculation method

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
Eye, Rabbit, In vivo study, irritant
1-methoxy-2-propanol, CAS: 107-98-2
Eye, Rabbit, In vivo study, non-irritating
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
Eye, irritant
2-Methylpropan-1-ol, CAS: 78-83-1
Eye, Rabbit, OECD 405, irritant

**Skin corrosion/irritation**

Irritant  
Based on the available information, the classification criteria are fulfilled.  
Toxicological data of complete product are not available.  
Calculation method

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
dermal, Rabbit, In vivo study, irritant
1-methoxy-2-propanol, CAS: 107-98-2
dermal, Rabbit, In vivo study, non-irritating
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
dermal, irritant
2-Methylpropan-1-ol, CAS: 78-83-1
dermal, Rabbit, OECD 404, irritant

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.  
Based on the available information, the classification criteria are fulfilled.  
Toxicological data of complete product are not available.  
Calculation method

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
mouse, OECD 429, non-sensitizing
1-methoxy-2-propanol, CAS: 107-98-2
dermal, Guinea pig, In vivo study, non-sensitizing
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
dermal, sensitising
2-Methylpropan-1-ol, CAS: 78-83-1
non-sensitizing, QSAR,

**Specific target organ toxicity — single exposure**

Based on the available information, the classification criteria are not fulfilled.  
Toxicological data of complete product are not available.

Substance
1-methoxy-2-propanol, CAS: 107-98-2
inhalative, adverse effect observed



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**Specific target organ toxicity — repeated exposure** — Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
NOAEL, oral, Rat, 250 mg/kg bw/day
NOAEC, inhalative, Rat, 3515 mg/m <sup>3</sup>
1-methoxy-2-propanol, CAS: 107-98-2
NOAEL, dermal, Rabbit, 1840 mg/kg bw/day (subchronic), OECD 411, The effects observed are not sufficient for classification.
NOAEC, inhalative, Rat, 1122 mg/m <sup>3</sup> (chronic), OECD 453, The effects observed are not sufficient for classification.
LOAEL, oral, Rat, 460 mg/kg bw/day (subchronic), OECD 408, The effects observed are not sufficient for classification.
2-Methylpropan-1-ol, CAS: 78-83-1
NOAEL, oral, Rat, 1450 mg/kg bw/day, OECD 408, no adverse effect observed
NOAEC, inhalative, Rat, 7500 mg/m <sup>3</sup> , In vivo study, no adverse effect observed

**Mutagenicity** — Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
subkutane, mouse, OECD 478, negativ
1-methoxy-2-propanol, CAS: 107-98-2
in vitro, OECD 471, no adverse effect observed
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
in vitro, negativ
2-Methylpropan-1-ol, CAS: 78-83-1
In vitro study, negativ, mammalian cell gene mutation assay,

**Reproduction toxicity** — Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

**- Fertility**

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
NOAEC, inhalative, Rat, 2171 mg/m <sup>3</sup> , In vivo study, negativ
1-methoxy-2-propanol, CAS: 107-98-2
NOAEL, oral, mouse, 1885 mg/kg bw/day, In vivo study, no adverse effect observed
NOAEC, inhalative, Rat, 3740 mg/m <sup>3</sup> , In vivo study, no adverse effect observed
2-Methylpropan-1-ol, CAS: 78-83-1
NOAEC, inhalative, Rat, 7500 mg/m <sup>3</sup> , In vivo study, no adverse effect observed

**- Development**

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
NOAEC, oral, Rat, 300 mg/kg bw/day, adverse effect observed
NOAEC, inhalative, Rat, 2171 mg/m <sup>3</sup> , In vivo study, negativ
1-methoxy-2-propanol, CAS: 107-98-2
NOAEL, oral, Rat, 920 mg/kg bw/day, In vivo study, no adverse effect observed



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NOAEC, inhalative, Rabbit, 11058 mg/m <sup>3</sup> , In vivo study, no adverse effect observed
2-Methylpropan-1-ol, CAS: 78-83-1
NOAEC, inhalative, Rat, 10000 mg/m <sup>3</sup> , OECD 414, no adverse effect observed

**Carcinogenicity**

Does not contain a relevant substance that meets the classification criteria.  
Based on the available information, the classification criteria are not fulfilled.  
Toxicological data of complete product are not available.

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
NOAEL, oral, Rat, 500 mg/kg bw/day
1-methoxy-2-propanol, CAS: 107-98-2
NOAEC, inhalative, Rat, 11058 mg/m <sup>3</sup> (chronic), OECD 453, no adverse effect observed

**Aspiration hazard**

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

**General remarks**

none

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Does not contain a relevant substance that meets the classification criteria.

**11.2.2 Other information**

**SECTION 12: Ecological information**

**12.1 Toxicity**

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
LC50, (96h), Oncorhynchus mykiss, 4,2 mg/L
EC50, (72h), Algae, 4,6 mg/L
IC50, (24h), Daphnia magna, 2,2 mg/L
1-methoxy-2-propanol, CAS: 107-98-2
LC50, (96h), Leuciscus idus, >4000 mg/L
EC50, (48h), Daphnia magna, 23300 mg/L
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
LC50, (96h), Leuciscus idus, 2 mg/L
EC50, (72h), Algae, 11 mg/L
EC50, (48h), Daphnia magna, 1,8 mg/L
2-Methylpropan-1-ol, CAS: 78-83-1
LC50, (96h), Pimephales promelas, 1430 mg/l
EC50, (48h), Daphnia pulex, 1100 mg/l
NOEC, (21d), Invertebrates, 20 mg/l
Ethylbenzene, CAS: 100-41-4
LC50, (96h), fish, 4,2 mg/l
EC50, (48h), Daphnia magna, 1,8 mg/l
EC50, (96h), Algae, 3,6 mg/l
EC50, (72h), Algae, 4,6 mg/l
NOEC, (96h), Algae, 1,0 mg/l



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## 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

Does not contain a relevant substance that meets the classification criteria.

## 12.7 Other adverse effects

None known.

## 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) 080111\*

#### 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 1263

Inland navigation (ADN) 1263

Marine transport in accordance with IMDG 1263

Air transport in accordance with IATA 1263

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#### 14.2 UN proper shipping name

Transport by land according to ADR/RID

Paint (No dangerous goods, according to ADR 2.2.3.1.5 to max. 450 l)

- Label



- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN)

Paint (No dangerous goods, according to ADR 2.2.3.1.5 to max. 450 l)

- Label



Marine transport in accordance with IMDG

Paint (No dangerous goods, according to IMDG 2.3.2.5 to max. 30 l (see 5.4.1.5.10) - "transport in compliance with 2.3.2.5 of the IMDG Code")

- EMS

F-E, S-E

- Label



Air transport in accordance with IATA Paint

- Label



#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID

3

Inland navigation (ADN)

3

Marine transport in accordance with IMDG

3

Air transport in accordance with IATA 3

#### 14.4 Packing group

Transport by land according to ADR/RID

III

Inland navigation (ADN)

III

Marine transport in accordance with IMDG

III

Air transport in accordance with IATA III



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**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; (EU) 2019/1148

- **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 ≥ 0.1% that are subject to authorisation.
- **Annex XVII (REACH)** According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 40, 75  
According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions.  
3

**TRANSPORT-REGULATIONS** ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

**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** 2, conf. AwSV, 18.04.2017
- **Decree for case of interference, observe limits** yes
- **Class. according to TA-Luft** 5.2.5.
- Storage class (TRGS 510)** Storage class 3 (TRGS 510)
- **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)** < 500 g/l
- **Other regulations** DGUV Information 213-072: Lösemittel (Merkblatt M 017 der Reihe "Gefahrstoffe")  
TRGS 401: Gefährdung durch Hautkontakt. - Ermittlung, Beurteilung, Maßnahmen.  
TRGS 510: Storage of hazardous substances in non-stationary containers  
TRGS 907: Verzeichnis sensibilisierender Stoffe.

**15.2 Chemical safety assessment**

not applicable

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## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to hearing organs through prolonged or repeated exposure.  
H332 Harmful if inhaled.  
H225 Highly flammable liquid and vapour.  
H412 Harmful to aquatic life with long lasting effects.  
H335 May cause respiratory irritation.  
H304 May be fatal if swallowed and enters airways.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H312+H332 Harmful in contact with skin or if inhaled.  
H226 Flammable liquid and vapour.  
-  
H411 Toxic to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

### 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

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)  
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)  
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)



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**Modified position**

none

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