

Rudolf Hensel GmbH  
21039 Börnsen

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Version 4.0

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

### 1.1 Product identifier

**HENSOTOP 84 AF seidenmatt**

### 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](http://www.rudolf-hensel.de)  
E-mail [info@rudolf-hensel.de](mailto:info@rudolf-hensel.de)

#### 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.  
STOT SE 3: H336 May cause drowsiness or dizziness.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

WARNING

#### Contains:

1-methoxy-2-propanol  
2-Methoxy-1-methylethyl acetate  
n-Butyl acetate

#### Hazard statements

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

#### 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 / eye protection / face protection.  
P312 Call a POISON CENTER / doctor /.../ if you feel unwell.  
P501 Dispose of contents/container in accordance with local/national regulation.

#### 2004/42/CE

< 500 g/l II A i SB One-pack performance coatings (max. 500 g/l)

### 2.3 Other hazards

#### Human health dangers

Frequent persistent contact with the skin can cause skin irritation.

#### Environmental hazards

Does not contain any PBT or vPvB substances.  
Contains no ingredients with endocrine-disrupting properties.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

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### SECTION 3: Composition / Information on ingredients

**3.1 Substances**  
not applicable

**3.2 Mixtures**

The product is a mixture.

Range [%]	Substance
10 - 20	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
10 - 20	2-Methoxy-1-methylethyl acetate CAS: 108-65-6, EINECS/ELINCS: 203-603-9, EU-INDEX: 607-195-00-7, Reg-No.: 01-2119475791-29-XXXX GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336
10 - 20	n-Butyl acetate CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336 - EUH066

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**

**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**

When in contact with the skin, clean 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

Vertigo

Dizziness

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

**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.

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

In the event of fire the following can be released:

Carbon monoxide (CO)

Phosphorus oxides (POx).

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### 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.

## 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 personal protective equipment.

### 6.2 Environmental precautions

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

### 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.  
Keep away from all sources of ignition - Refrain from smoking.  
Take precautionary measures against static discharges.  
Vapours can form an explosive mixture with air.  
Ignitable mixtures can be formed in the empty container.  
Use explosion-proofed equipment/fittings and non-sparking tools.  
Do not eat, drink, smoke or take drugs at work.  
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.  
Use barrier skin cream.  
Take off contaminated clothing and wash before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.  
Provide solvent-resistant and impermeable floor.  
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.  
Storage class 3 (TRGS 510)

Storage class (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
n-Butyl acetate
CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
Exposure limit: 62 ppm, 300 mg/m <sup>3</sup> , Y, AGS, EU
Factor: 2(l)
2-Methoxy-1-methylethyl acetate
CAS: 108-65-6, EINECS/ELINCS: 203-603-9, EU-INDEX: 607-195-00-7, Reg-No.: 01-2119475791-29-XXXX
Exposure limit: 50 ppm, 270 mg/m <sup>3</sup> , Y, DFG, EU
Factor: 1(l)
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(l)
[2-(2-butoxyethoxy)ethyl]-acetate
CAS: 124-17-4, EINECS/ELINCS: 204-685-9
Exposure limit: 10 ppm, 67 mg/m <sup>3</sup> , DFG, Y, 11
Factor: 1,5(l)

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

Substance / EC LIMIT VALUES
n-Butyl acetate
CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
Eight hours: 50 ppm, 241 mg/m <sup>3</sup>
Short-term (15-minute): 150 ppm, 723 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate
CAS: 108-65-6, EINECS/ELINCS: 203-603-9, EU-INDEX: 607-195-00-7, Reg-No.: 01-2119475791-29-XXXX
Eight hours: 50 ppm, 275 mg/m <sup>3</sup> , H
Short-term (15-minute): 100 ppm, 550 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
n-Butyl acetate, CAS: 123-86-4
Industrial, inhalative, Long-term - systemic effects, 300 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 300 mg/m <sup>3</sup>
Industrial, inhalative, Acute - systemic effects, 600 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 11 mg/kg bw/day
Industrial, dermal, Acute - systemic effects, 11 mg/kg bw/day
Industrial, inhalative, Acute - local effects, 600 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 300 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 35,7 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 300 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 35,7 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 6 mg/kg bw/day
general population, dermal, Acute - systemic effects, 6 mg/kg bw/day
general population, oral, Long-term - systemic effects, 2 mg/kg bw/day
general population, oral, Acute - systemic effects, 2 mg/kg bw/day



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2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
Industrial, inhalative, Long-term - local effects, 550 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 275 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 796 mg/kg bw/day
general population, oral, Long-term - systemic effects, 36 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 320 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 33 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 33 mg/m <sup>3</sup>
general population, oral, Acute - systemic effects, 500 mg/kg bw/day
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

**PNEC**

Substance
n-Butyl acetate, CAS: 123-86-4
freshwater, 0,18 mg/L (AF= 100)
seawater, 0,018 mg/L (AF= 1000)
sewage treatment plants (STP), 35,6 mg/L (AF= 10)
sediment (freshwater), 0,981 mg/kg/ dw
sediment (seawater), 0,098 mg/kg/ dw
soil, 0,09 mg/kg/ dw
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
freshwater, 0,635 mg/l
seawater, 0,064 mg/L
sediment (freshwater), 3,29 mg/kg
sediment (seawater), 0,329 mg/kg
soil, 0,29 mg/kg
sewage treatment plants (STP), 100 mg/l
1-methoxy-2-propanol, CAS: 107-98-2
sewage treatment plants (STP), 100 mg/L
soil, 4,59 mg/kg
freshwater, 10 mg/L
sediment (freshwater), 52,3 mg/kg
sediment (seawater), 5,2 mg/kg
seawater, 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>	For short-term contact: 0,4mm Nitrile rubber, >480 min (EN 374-1/-2/-3). 0,4mm Butyl rubber, >480 min (EN 374-1/-2/-3). In full contact: 0,4mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Solvent-resistant 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>	characteristic
<b>Odour threshold</b>	not required
<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>	> 100
<b>Flash point [°C]</b>	32
<b>Flammability</b>	not applicable
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/cm³]</b>	1,05 - 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>	partially miscible
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	45 - 55 s (ISO 2431:1993 6mm)
<b>Relative vapour density</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	not self-igniting
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	not applicable

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## 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 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 acids, alkalis and oxidizing agents.

Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

Oxidizing agent

Acids

Alkalies

### 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** not determined

Product
ATE-mix, oral, > 2000 mg/kg

Substance
n-Butyl acetate, CAS: 123-86-4
LD50, oral, Rat, 10760 mg/kg (OECD 423)
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LD50, oral, Rat, > 5000 mg/kg
1-methoxy-2-propanol, CAS: 107-98-2
LD50, oral, Rat, 4016 mg/kg bw

**Acute dermal toxicity** not determined

Product
ATE-mix, dermal, > 2000 mg/kg

Substance
n-Butyl acetate, CAS: 123-86-4
LD50, dermal, Rabbit, >14112 mg/kg (OECD 402)
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LD50, dermal, Rat, > 2000 mg/kg
1-methoxy-2-propanol, CAS: 107-98-2
LD50, dermal, Rabbit, > 2000 mg/kg

**Acute inhalational toxicity** not determined

Product
ATE-mix, inhalation (vapour), > 20 mg/l 4h

Substance
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LC0, inhalative, Rat, > 4345 ppm (6 h)
1-methoxy-2-propanol, CAS: 107-98-2
LC50, inhalative, mouse, 6000 - 7000 ppm (6h)

**Serious eye damage/irritation** 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
n-Butyl acetate, CAS: 123-86-4
Eye, Rabbit, OECD 405, non-irritating
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
Eye, Rabbit, OECD 405, non-irritating
1-methoxy-2-propanol, CAS: 107-98-2
Eye, Rabbit, Study, non-irritating

**Skin corrosion/irritation** 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
n-Butyl acetate, CAS: 123-86-4
dermal, Rabbit, OECD 404, non-irritating
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6



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dermal, Rabbit, OECD 404, non-irritating
1-methoxy-2-propanol, CAS: 107-98-2
dermal, Rabbit, Study, non-irritating

**Respiratory or skin sensitisation** 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
n-Butyl acetate, CAS: 123-86-4
dermal, Guinea pig, In vivo study, non-sensitizing
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
dermal, Guinea pig, OECD 406, non-sensitizing
1-methoxy-2-propanol, CAS: 107-98-2
dermal, Guinea pig, Study, non-sensitizing

**Specific target organ toxicity — single exposure** Vapours may cause drowsiness and dizziness. Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method

Substance
n-Butyl acetate, CAS: 123-86-4
No information available.
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
inhalative, adverse effect observed

**Specific target organ toxicity — repeated exposure** 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
n-Butyl acetate, CAS: 123-86-4
NOAEL, oral, Rat, 196 mg/kg bw/day, In vivo study, negativ
NOAEC, inhalative, Rat, 2400 mg/m <sup>3</sup> , In vivo study, negativ
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEL, oral, Rat, 1000 mg/kg bw/day (subacute), no adverse effect observed
NOAEL, dermal, Rabbit, 2675 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
NOAEC, inhalative, Rat, 1650 mg/m <sup>3</sup> (subacute), The effects observed are not sufficient for classification.
1-methoxy-2-propanol, CAS: 107-98-2
NOAEL, oral, Rat, < 495,5 mg/kg bw/day, OECD 408, negativ
NOAEC, inhalative, 1122 mg/m <sup>3</sup> , OECD 453, negativ

**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
n-Butyl acetate, CAS: 123-86-4
Ames-test, negativ
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
in vitro, negativ
1-methoxy-2-propanol, CAS: 107-98-2
in vitro, OECD 471, negativ

**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
n-Butyl acetate, CAS: 123-86-4



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NOAEC, inhalative, Rat, 9640 mg/m <sup>3</sup> , OECD 416, negativ
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEL, oral, Rat, 1000 mg/kg bw/day (subacute), OECD 422, no adverse effect observed, Effect on fertility,
NOAEC, inhalative, Rat, 5400 mg/m <sup>3</sup> (subchronic), no adverse effect observed, Effect on fertility,
1-methoxy-2-propanol, CAS: 107-98-2
inhalative, Rabbit, OECD 414, negativ

**- Development**

Substance
n-Butyl acetate, CAS: 123-86-4
LOAEC, inhalation (vapour), Rat, 7230 mg/m <sup>3</sup> , OECD 414, adverse effect observed
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEC, inhalative, Rat, 22464 mg/m <sup>3</sup> , OECD 414, no adverse effect observed
1-methoxy-2-propanol, CAS: 107-98-2
inhalative, Rabbit, OECD 414, negativ

**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
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEC, inhalative, Rat, 11058 mg/m <sup>3</sup> (chronic), OECD 453, no adverse effect observed
1-methoxy-2-propanol, CAS: 107-98-2
NOAEC, inhalative, Rat, 11058 mg/m <sup>3</sup> , OECD 453, negativ

**Aspiration hazard**

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
n-Butyl acetate, CAS: 123-86-4
LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203)
EC50, (48h), Daphnia magna, 44 mg/l
EC50, (72h), Desmodesmus subspicatus, 647,7 mg/l
IC50, Bacteria, 356 mg/l (40 h)
NOEC, Desmodesmus subspicatus, 200 mg/l
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LC50, (96h), Oncorhynchus mykiss, 134 mg/l (OECD 203)
EC50, (48h), Daphnia magna, > 500 mg/l
EC50, (72h), Selenastrum capricornutum, > 1000 mg/l (OECD 201)
NOEC, Oryzias latipes, 47,5 mg/l (14 d) (OECD 204)
NOEC, (21d), Daphnia magna, ≥ 100 mg/l (OECD 202)
EC10, Bacteria, > 1000 mg/l (0,5 h) (ISO 8192)
1-methoxy-2-propanol, CAS: 107-98-2
LC50, (96h), Fish, 6,812 g/L
EC50, (48h), Daphnia magna, 23300 mg/L
EC50, (168h), Algae, >1 g/L

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	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.

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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)**

080111\*

**Contaminated packaging**

Untaminated 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

**14.2 UN proper shipping name**

Transport by land according to ADR/RID Paint (No dangerous goods, according 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 ADR 2.2.3.1.5 to max. 450 l)

- Label



Marine transport in accordance with IMDG

Paint (No dangerous goods, according IMDG 2.3.2.5 to max. 450 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



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#### 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

#### 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

<b>EEC-REGULATIONS</b>	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) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- <b>Comment on component parts</b>	SVHC (Candidate List of Substances of Very High Concern for authorisation) $\geq$ 0.1% CAS 108-78-1 - Melamine
- <b>Annex XIV (REACH)</b>	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.
- <b>Annex XVII (REACH)</b>	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq$ 0.1% of substances with the following restrictions. 40, 65, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
<b>TRANSPORT-REGULATIONS</b>	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
<b>NATIONAL REGULATIONS (DE):</b>	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.
- <b>Water hazard class</b>	1, conf. AwSV, 18.04.2017
- <b>Decree for case of interference, observe limits</b>	yes
- <b>Class. according to TA-Luft</b>	5.2.5.
- <b>Storage class (TRGS 510)</b>	Storage class 3 (TRGS 510)
- <b>Observe employment restrictions for people</b>	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- <b>VOC (2010/75/CE)</b>	< 500 g/l
- <b>Other regulations</b>	DGUV Information 213-072: Lösemittel (Merkblatt M 017 der Reihe "Gefahrstoffe") TRGS 510: Storage of hazardous substances in non-stationary containers

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H336 Repeated exposure may cause skin dryness or cracking.  
H336 May cause drowsiness or dizziness.  
H226 Flammable liquid and vapour.

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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

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)  
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

### Modified position

1.3, 2.2, 2.3, 3.2, 8.1, 9.1, 11.1, 11.2, 12.1, 12.6, 12.7, 15.1, 16.2, 16.3

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