

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**

600N  
Version 18.2

Special-Marking-Paint 600N  
Revision date 06-May-2024

Print date 15-May-2024

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

**1.1 Product identifier**

**Trade name/designation**

600N Special-Marking-Paint 600N \* for all colours \*\*  
UFI: PE00-V04G-D00F-CSVV

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

**Relevant identified uses**

Plating agent

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

**Supplier**

BARTH GbR  
TUPF-Signiersysteme &  
Elektrolabors  
Graf-Kirchberg-Straße 66 Telephone: +49 7303 168102  
89257 Illertissen Telefax: +49 7303 168103  
Germany E-mail: Info@Tupf-Signiergeraete.de  
Website: www.Tupf-Signiergeraete.de

**Department responsible for information**

E-mail (competent person) berlintonx@giftnotruf.de

**1.4 Emergency telephone number**

Emergency telephone number: +49-30-19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
Flam. Liq. 2; flammable liquids; H225 Highly flammable liquid and vapour.  
Eye Irrit. 2; Serious eye damage/eye irritation; H319 Causes serious eye irritation.  
STOT SE 3 Narcotic effects; STOT-single exposure; H336 May cause drowsiness or dizziness.  
Aquatic Chronic 3; Hazardous to the aquatic environment; H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

**Hazard pictograms**



GHS02 GHS07

**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
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.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.

**Hazard components for labelling**

n-butyl acetate

**Supplemental hazard information**

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EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards**

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**

**Description**

Preparation of synthetic binders, pigments and solvents

**Hazardous ingredients**

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
123-86-4 204-658-1 607-025-00-1	<b>n-butyl acetate</b> 01-2119485493-29 Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	15,0 < 20,0
108-65-6 203-603-9 607-195-00-7	<b>2-methoxy-1-methylethyl acetate</b> 01-2119475791-29 Flam. Liq. 3 H226 / STOT SE 3 H336	12,5 < 15,0
128601-23-0 918-668-5 -	<b>Hydrocarbons, C9, aromatics</b> 01-2119455851-35 Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411 / EUH066 ATE (inhalative): > 4,688 mg/m <sup>3</sup>	10,0 < 12,5
141-78-6 205-500-4 607-022-00-5	<b>ethyl acetate</b> 01-2119475103-46 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	5,00 < 7,00
64-17-5 200-578-6 603-002-00-5	<b>ethanol; ethyl alcohol</b> 01-2119457610-43 Flam. Liq. 2 H225 / Eye Irrit. 2 H319	3,00 < 5,00
- (1330-20-7) 905-588-0 -	<b>Reaction mass of ethylbenzene and xylene</b> 01-2119488216-32 Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / STOT SE 3 H335 / STOT RE 2 H373	3,00 < 5,00
* 71-36-3 200-751-6 603-004-00-6	<b>butan-1-ol; n-butanol</b> 01-2119484630-38 Flam. Liq. 3 H226 / Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H335 / STOT SE 3 H336 ATE (dermal): 3,430 mg/kg ATE (inhalative): >= 24 mg/L (4 h) ATE (oral): 1,782 mg/kg	2,00 < 2,50

**Remark**

Full text of H- and EUH-statements: see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

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#### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

##### Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Powder, spray mist, (water)

##### Unsuitable extinguishing media

Strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### 6.3 Methods and material for containment and cleaning up

##### For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

##### For cleaning up

Clean using cleansing agents. Do not use solvents.

#### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see section 8 Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

##### Advices on general occupational hygiene

When using do not eat, drink or smoke.

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

##### Requirements for storage rooms and vessels

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Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSivO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Storage class** LGK3 - Flammable liquids

**Further information on storage conditions**

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C.

**7.3 Specific end use(s)**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
108-65-6	2-methoxy-1-methylethyl acetate	WEL	274 / 548 ( - ) mg/m <sup>3</sup> (may be absorbed through the skin)
128601-23-0	Hydrocarbons, C9, aromatics	WEL	500 / - ( - ) mg/m <sup>3</sup> (Aromatics)
-	Reaction mass of ethylbenzene and xylene	WEL	220 / 441 ( - ) mg/m <sup>3</sup> (may be absorbed through the skin)
71-36-3	butan-1-ol; n-butanol	WEL	- / 154 ( - ) mg/m <sup>3</sup> (may be absorbed through the skin)
64-17-5	ethanol; ethyl alcohol	WEL	1,920 / - ( - ) mg/m <sup>3</sup>
141-78-6	ethyl acetate	WEL	734 / 1,468 ( - ) mg/m <sup>3</sup>

**Additional information**

Long-term: Long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

**Biological limit values**

CAS No.	Substance name	Source	Value/ Test material
-	Reaction mass of ethylbenzene and xylene	BMGV	650 mmol/mol creatinine / urine end of exposure or end of shift

**DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
108-65-6	2-methoxy-1-methylethyl acetate	Long-term – inhalation, systemic effects	275 mg/m <sup>3</sup>
108-65-6	2-methoxy-1-methylethyl acetate	Acute - inhalation, local effects	550 mg/m <sup>3</sup>
108-65-6	2-methoxy-1-methylethyl acetate	Long-term - dermal, systemic effects	796 mg/kg bw/day
128601-23-0	Hydrocarbons, C9, aromatics	Long-term – inhalation, systemic effects	151 mg/m <sup>3</sup>
128601-23-0	Hydrocarbons, C9, aromatics	Long-term - dermal, systemic effects	12.5 mg/kg bw/day
-	Reaction mass of ethylbenzene and xylene	Long-term – inhalation, systemic effects	221 mg/m <sup>3</sup>
-	Reaction mass of ethylbenzene and xylene	Acute - inhalation, local effects	442 mg/m <sup>3</sup>
-	Reaction mass of ethylbenzene and xylene	Long-term – inhalation, local effects	221 mg/m <sup>3</sup>
-	Reaction mass of ethylbenzene and xylene	Long-term - dermal, systemic effects	212 mg/kg bw/day
71-36-3	butan-1-ol; n-butanol	Long-term – inhalation, local	310 mg/m <sup>3</sup>

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		effects	
64-17-5	ethanol; ethyl alcohol	Long-term – inhalation, systemic effects	380 mg/m <sup>3</sup>
141-78-6	ethyl acetate	Long-term – inhalation, systemic effects	734 mg/m <sup>3</sup>
141-78-6	ethyl acetate	Acute - inhalation, local effects	1,468 mg/m <sup>3</sup>
141-78-6	ethyl acetate	Long-term – inhalation, local effects	734 mg/m <sup>3</sup>
141-78-6	ethyl acetate	Long-term - dermal, systemic effects	63 mg/kg bw/day
123-86-4	n-butyl acetate	Long-term – inhalation, systemic effects	48 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	Long-term - dermal, systemic effects	7 mg/kg bw/day

**DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
108-65-6	2-methoxy-1-methylethyl acetate	Long-term – inhalation, systemic effects	33 mg/m <sup>3</sup>
108-65-6	2-methoxy-1-methylethyl acetate	Long-term – inhalation, local effects	33 mg/m <sup>3</sup>
108-65-6	2-methoxy-1-methylethyl acetate	Long-term - dermal, systemic effects	320 mg/kg bw/day
108-65-6	2-methoxy-1-methylethyl acetate	Long-term - oral, systemic effects	36 mg/kg bw/day
128601-23-0	Hydrocarbons, C9, aromatics	Long-term – inhalation, systemic effects	32 mg/m <sup>3</sup>
128601-23-0	Hydrocarbons, C9, aromatics	Long-term - dermal, systemic effects	7.5 mg/kg bw/day
128601-23-0	Hydrocarbons, C9, aromatics	Long-term - oral, systemic effects	7.5 mg/kg bw/day
-	Reaction mass of ethylbenzene and xylene	Long-term – inhalation, systemic effects	65.3 mg/m <sup>3</sup>
-	Reaction mass of ethylbenzene and xylene	Acute - inhalation, systemic effects	260
-	Reaction mass of ethylbenzene and xylene	Long-term – inhalation, local effects	65.3 mg/m <sup>3</sup>
-	Reaction mass of ethylbenzene and xylene	Acute - inhalation, local effects	260 mg/m <sup>3</sup>
-	Reaction mass of ethylbenzene and xylene	Long-term - dermal, systemic effects	125 mg/kg bw/day
-	Reaction mass of ethylbenzene and xylene	Long-term - oral, systemic effects	12.5 mg/kg bw/day
71-36-3	butan-1-ol; n-butanol	Long-term – inhalation, systemic effects	55.357 mg/m <sup>3</sup>
71-36-3	butan-1-ol; n-butanol	Long-term – inhalation, local effects	155 mg/m <sup>3</sup>
71-36-3	butan-1-ol; n-butanol	Long-term - dermal, systemic effects	3.125 mg/kg bw/day
71-36-3	butan-1-ol; n-butanol	Long-term - oral, systemic effects	1.562 mg/kg bw/day
64-17-5	ethanol; ethyl alcohol	Long-term – inhalation, systemic effects	114 mg/m <sup>3</sup>
141-78-6	ethyl acetate	Long-term – inhalation, systemic effects	367 mg/m <sup>3</sup>
141-78-6	ethyl acetate	Acute - inhalation, systemic effects	734
141-78-6	ethyl acetate	Long-term – inhalation, local effects	367 mg/m <sup>3</sup>

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141-78-6	ethyl acetate	Acute - inhalation, local effects	734 mg/m <sup>3</sup>
141-78-6	ethyl acetate	Long-term - dermal, systemic effects	37 mg/kg bw/day
141-78-6	ethyl acetate	Long-term - oral, systemic effects	4.5 mg/kg bw/day
123-86-4	n-butyl acetate	Long-term – inhalation, systemic effects	12 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	Long-term - dermal, systemic effects	3.4 mg/kg bw/day
123-86-4	n-butyl acetate	Long-term - oral, systemic effects	3.4 mg/kg bw/day

**PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
108-65-6	2-methoxy-1-methylethyl acetate	aquatic, intermittent release	6.35 mg/L
108-65-6	2-methoxy-1-methylethyl acetate	aquatic, marine water	0.064 mg/L
108-65-6	2-methoxy-1-methylethyl acetate	sewage treatment plant	100 mg/L
108-65-6	2-methoxy-1-methylethyl acetate	sediment, freshwater	3.29 mg/kg sediment dw
108-65-6	2-methoxy-1-methylethyl acetate	sediment, marine water	0.329 mg/kg sediment dw
-	Reaction mass of ethylbenzene and xylene	aquatic, intermittent release	0.327 mg/L
-	Reaction mass of ethylbenzene and xylene	aquatic, marine water	0.327 mg/L
-	Reaction mass of ethylbenzene and xylene	sewage treatment plant	6.58 mg/L
-	Reaction mass of ethylbenzene and xylene	sediment, freshwater	12.46 mg/kg sediment dw
-	Reaction mass of ethylbenzene and xylene	sediment, marine water	12.46 mg/kg sediment dw
71-36-3	butan-1-ol; n-butanol	aquatic, intermittent release	2.25 mg/L
71-36-3	butan-1-ol; n-butanol	aquatic, marine water	0.008 mg/L
71-36-3	butan-1-ol; n-butanol	sewage treatment plant	2,476 mg/L
71-36-3	butan-1-ol; n-butanol	sediment, freshwater	0.324 mg/kg sediment dw
71-36-3	butan-1-ol; n-butanol	sediment, marine water	0.032 mg/kg sediment dw
64-17-5	ethanol; ethyl alcohol	aquatic, intermittent release	2.75 mg/L
64-17-5	ethanol; ethyl alcohol	aquatic, marine water	0.79 mg/L
64-17-5	ethanol; ethyl alcohol	sewage treatment plant	580 mg/L
64-17-5	ethanol; ethyl alcohol	sediment, freshwater	3.6 mg/kg sediment dw
64-17-5	ethanol; ethyl alcohol	sediment, marine water	2.9
141-78-6	ethyl acetate	aquatic, intermittent release	1.65 mg/L
141-78-6	ethyl acetate	aquatic, marine water	0.024 mg/L
141-78-6	ethyl acetate	sewage treatment plant	650 mg/L
141-78-6	ethyl acetate	sediment, freshwater	1.15 mg/kg sediment dw
141-78-6	ethyl acetate	sediment, marine water	0.115 mg/kg sediment dw
123-86-4	n-butyl acetate	aquatic, intermittent release	0.36 mg/L
123-86-4	n-butyl acetate	aquatic, marine water	0.018 mg/L
123-86-4	n-butyl acetate	sewage treatment plant	35.6 mg/L
123-86-4	n-butyl acetate	sediment, freshwater	0.981 mg/kg sediment dw
123-86-4	n-butyl acetate	sediment, marine water	0.098 mg/kg sediment dw

**8.2 Exposure controls**

Provide good ventilation. This can be achieved with local or room suction.

**Personal protection equipment**

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Hand protection**

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Suitable material: NBR (Nitrile rubber)  
Thickness of the glove material  $\geq 0.4$  mm  
Breakthrough time  $\geq 480$  min

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. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

Recommended glove articles: EN ISO 374

#### Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye/face protection

Eye glasses with side protection: EN 166

#### Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	refer to label
Odour	characteristic
pH at 20 °C	not relevant
Melting point/freezing point	-114.1 °C Source: ethanol; ethyl alcohol
Initial boiling point and boiling range	> 76 °C Source: ethyl acetate
Flash point	12 °C
flammability	Highly flammable liquid and vapour.
Lower explosion limit at 20°C	0.8 Vol-% Source: Hydrocarbons, C9, aromatics
Upper explosion limit at 20°C	15 Vol-% Source: ethanol; ethyl alcohol
Vapour pressure at 20°C	16.901 mbar
Relative vapour density	not applicable
Density at 20 °C	1.1 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	180 °C Source: cellulose nitrate
Decomposition temperature	not determined
Viscosity at 20 °C	700 mm <sup>2</sup> /s
particle characteristics	not applicable

### 9.2 Other information

not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.



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#### 10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

#### 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

#### 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures e.g.: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, smoke.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### **Hydrocarbons, C9, aromatics**

LC50: inhalative > 4,688 mg/m<sup>3</sup>

#### **butan-1-ol; n-butanol**

LD50: dermal (Rabbit): 3,430 mg/kg

LC0: inhalative (Rat): >= 24 mg/L (4 h)

LD0 oral (Dog): 1,782 mg/kg

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

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

#### Overall assessment on CMR properties

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

#### STOT-single exposure

May cause drowsiness or dizziness.

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### **Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

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

## SECTION 12: Ecological information

### 12.1 Toxicity



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Harmful to aquatic life with long lasting effects.

#### **Acute (short-term) fish toxicity**

##### **butan-1-ol; n-butanol**

LC0: (Pimephales promelas (fathead minnow)): > 100 mg/L (96 h)

#### **Acute (short-term) toxicity to algae and cyanobacteria**

EC50 (Desmodesmus subspicatus): > 500 mg/L (72 h)

#### **Acute (short-term) toxicity to crustacea**

EC50 (Daphnia magna (Big water flea)): 1,760 mg/L (48 h)

#### **Chronic (long-term) toxicity to aquatic invertebrate**

NOEC (Daphnia magna (Big water flea)): 4.1 mg/L (21 d)

#### **Toxicity to microorganisms**

##### **Hydrocarbons, C9, aromatics**

NOEC 99 mg/L (10 min)

##### **butan-1-ol; n-butanol**

650 mg/L (16 h)

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

- \* Partition coefficient: n-octanol/water = 0.79 (butan-1-ol; n-butanol)  
Partition coefficient: n-octanol/water > 0.86 (ethyl acetate)  
Partition coefficient: n-octanol/water = 3.15 (Reaction mass of ethylbenzene and xylene)
- \* Partition coefficient: n-octanol/water  $\geq$  3.03 (Hydrocarbons, C9, aromatics)  
Partition coefficient: n-octanol/water = 0.43 (2-methoxy-1-methylethyl acetate)  
Partition coefficient: n-octanol/water = 1.73 (n-butyl acetate)  
Partition coefficient: n-octanol/water = -0.31 (ethanol; ethyl alcohol)

### 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.

### 12.6 Endocrine disrupting properties

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

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### **Product/Packaging disposal**

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### **Waste codes/waste designations according to EWC/AVV**

080111\* - Waste paint and varnish containing organic solvents or other dangerous substances

#### **Other disposal recommendations**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

### 14.1 UN number or ID number

UN 1263

### 14.2 UN proper shipping name

#### **Land transport (ADR/RID)**

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**Sea transport (IMDG)**

Paint

**Air transport (ICAO-TI / IATA-DGR)**

Paint

**14.3 Transport hazard class(es)**

Land transport (ADR/RID) 3  
 Sea transport (IMDG) 3  
 Air transport (ICAO-TI / IATA-DGR) 3

**14.4 Packing group**

Land transport (ADR/RID) II  
 Sea transport (IMDG) II  
 Air transport (ICAO-TI / IATA-DGR) II

**14.5 Environmental hazards**

Land transport (ADR/RID) not applicable  
 Sea transport (IMDG) not applicable

**14.6 Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
 Advices on safe handling: see parts 6 - 8

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

No transport as bulk according to IBC Code.

**14.8 Additional information**

**Land transport (ADR/RID)**

Tunnel restriction code: D/E  
 Limited quantity (LQ): 5 ltr  
 Hazard identification number (Kemler No.): 33

**Sea transport (IMDG)**

EmS-No.: F-E, S-E  
 Limited quantity (LQ): 5 ltr

**Air transport (ICAO-TI / IATA-DGR)**

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.  
 Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC value: 658 g/l

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

**Hazard categories / Named dangerous substances**

P5c FLAMMABLE LIQUIDS  
 Quantity 1: 5,000t; Quantity 2: 50,000t

**National regulations**

Observe in addition any national regulations!

**15.2 Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

REACH No.	Substance name	CAS No. EC No.
01-2119475791-29	2-methoxy-1-methylethyl acetate	108-65-6 203-603-9
01-2119455851-35	Hydrocarbons, C9, aromatics	128601-23-0

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		918-668-5
01-2119488216-32	Reaction mass of ethylbenzene and xylene	- 905-588-0
01-2119484630-38	butan-1-ol; n-butanol	71-36-3 200-751-6
01-2119457610-43	ethanol; ethyl alcohol	64-17-5 200-578-6
01-2119475103-46	ethyl acetate	141-78-6 205-500-4
01-2119485493-29	n-butyl acetate	123-86-4 204-658-1

## SECTION 16: Other information

### List of relevant hazard statements and/or precautionary statements from sections 2 to 15

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to heart through prolonged or repeated exposure if swallowed.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Flam. Liq. 2	On basis of test data.
Eye Irrit. 2	Calculation method.
STOT SE 3 Narcotic effects	Calculation method.
Aquatic Chronic 3	Calculation method.

### Abbreviations and acronyms

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**

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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
OEL: Occupational Exposure Limit Value  
BLV: Biological limit values  
CAS: Chemical Abstracts Service  
CLP: Classification, Labelling and Packaging  
CMR: Carcinogenic, Mutagenic and Reprotoxic  
DIN: German Institute for Standardization / German industrial standard  
DNEL: Derived No-Effect Level  
EAKV: European Waste Catalogue Directive  
EC: Effective Concentration  
EC: European Community  
EN: European Standard  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG Code: International Maritime Code for Dangerous Goods  
ISO: International Organization for Standardization  
LC: Lethal Concentration  
LD: Lethal Dose  
MWC: Maximum workplace concentration  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Cooperation and Development  
PBT: persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version.