



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

### 1.1 Product identifier

**Trade name: TOUCH-UP PEN**

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

**Application of the substance / the mixture** Lacquer

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

**Manufacturer/Supplier:**

**Prefa Aluminiumprodukte GmbH**

Werkstraße 1

3182 Markt/Lilienfeld

Austria

T: +43 2762 502 0

Email: office.at@prefa.com

**Further information obtainable from:**

External:

Heinrich König GmbH & Co. KG

E-mail: SDB@heinrich-koenig.de

Product:

243900 I Kanten-Fix PREMIUM

### 1.4 Emergency telephone number:

+43 2762 502 0

Available during office hours:

Monday - Thursday: 07:00 - 12.00, 13:00 - 17:00 h

Friday: 07:00 - 13:00 h

**Call the national emergency number!**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Flam. Liq. 2          H225 Highly flammable liquid and vapour.

STOT SE 3          H336 May cause drowsiness or dizziness.

Aquatic Chronic 3   H412 Harmful to aquatic life with long lasting effects.

**Additional information:** For the wording of the hazard categories, see section 16.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

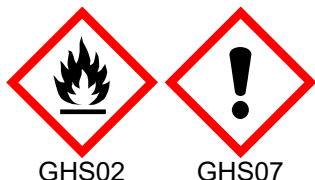
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**Hazard pictograms**



**Signal word** Danger

**Hazard-determining components of labelling:**

n-butyl acetate

**Hazard statements**

- H225 Highly flammable liquid and vapour.
- 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 foam to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

**Determination of endocrine-disrupting properties**

CAS: 78-93-3	Butanone	List II
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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

[% (w/w)]

CAS: 123-86-4	n-butyl acetate	50 – < 100%
EINECS: 204-658-1	Flam. Liq. 3, H226	
Index number: 607-025-00-1	STOT SE 3, H336	
Reg.nr.: 01-2119485493-29-XXXX	EUH066	

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**Trade name: TOUCH-UP PEN**

		(Contd. of page 2)
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-XXXX	Butanone	7 – < 10%
	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	
EC number: 918-668-5 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35-XXXX	Hydrocarbons, C9, aromatics Alternative CAS number: 64742-95-6	7 – < 10%
	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336 EUH066	
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate	3 – < 5%
	Flam. Liq. 3, H226 STOT SE 3, H336	
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide	3 - < 5%
	Carc. 2, H351	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information:**

In case of discomfort or doubt, seek medical advice.  
 If unconscious, use a stable lateral position and do not administer anything through mouth.  
 Immediately remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air; consult doctor in case of complaints.  
 In case of irregular breathing or respiratory arrest provide artificial respiration.

**After skin contact:**

Wash with plenty of soap and water.  
 Take off contaminated clothing and wash it before reuse.  
 Seek medical treatment in case of complaints.

**After eye contact:**

Rinse opened eye for several minutes under running water.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 Seek medical treatment.

**After swallowing:**

Rinse mouth.  
 Do NOT induce vomiting.

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**Trade name: TOUCH-UP PEN**

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Never administer anything by mouth to an unconscious person.

Call a doctor immediately.

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

No further relevant information available.

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

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

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

In case of fire, dangerous combustion gases or vapours may be generated.

In case of fire, the following can be released:

CO<sub>x</sub>, NO<sub>x</sub>

Fumes can combine with air to form an explosive mixture.

**5.3 Advice for firefighters**

**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information**

Do not inhale explosion gases or combustion gases.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

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

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

Keep away from ignition sources.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding, inert material (sand, diatomite, acid binders, universal binders).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Avoid breathing mist/vapours/spray.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

**Information about fire - and explosion protection:**

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

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Fumes can combine with air to form an explosive mixture.

Vapours are heavier than air and spread over the ground.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store in a dry, cool, well-ventilated area.

Store in accordance with local/regional/national/international regulations.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in original container.

Store upright to prevent leakage.

Protect from heat and direct sunlight.

**Recommended storage temperature:** 15 - 30 °C

**Storage class:** 3

**7.3 Specific end use(s)** No further relevant information available.

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

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**CAS: 123-86-4 n-butyl acetate**

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm

Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

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**Safety data sheet**  
according to UK REACH



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Revision: 05.05.2025

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<b>CAS: 78-93-3 Butanone</b>	
WEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
<b>CAS: 108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
<b>CAS: 13463-67-7 titanium dioxide</b>	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable

**Regulatory information** WEL: EH40/2020

<b>DNELs</b>		
<b>CAS: 123-86-4 n-butyl acetate</b>		
Oral	Long-term exposure - systemic effects	2 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	6 mg/kg bw/d (consumer) 11 mg/kg bw/d (workers)
	short-term exposure - systemic effects	6 mg/kg bw (consumer) 11 mg/kg bw (workers)
Inhalative	Long-term exposure - systemic effects	35.7 mg/m <sup>3</sup> (consumer) 300 mg/m <sup>3</sup> (workers)
	Long-term exposure - local effects	35.7 mg/m <sup>3</sup> (consumer) 300 mg/m <sup>3</sup> (workers)
	short-term exposure - systemic effects	300 mg/m <sup>3</sup> (consumer) 600 mg/m <sup>3</sup> (workers)
	short-term exposure - local effects	300 mg/m <sup>3</sup> (consumer) 600 mg/m <sup>3</sup> (workers)
<b>CAS: 78-93-3 Butanone</b>		
Oral	Long-term exposure - systemic effects	31 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	412 mg/kg bw/d (consumer) 1,161 mg/kg bw/d (workers)
	Long-term exposure - systemic effects	106 mg/m <sup>3</sup> (consumer) 600 mg/m <sup>3</sup> (workers)
Inhalative	short-term exposure - systemic effects	450 mg/m <sup>3</sup> (consumer) 900 mg/m <sup>3</sup> (workers)
	<b>Hydrocarbons, C9, aromatics</b>	
Oral	Long-term exposure - systemic effects	7.5 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	7.5 mg/kg bw/d (consumer)

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**Safety data sheet**  
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Inhalative	Long-term exposure - systemic effects	12.5 mg/kg bw/d (workers) 32 mg/m <sup>3</sup> (consumer) 151 mg/m <sup>3</sup> (workers)
<b>CAS: 108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	Long-term exposure - systemic effects	36 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	320 mg/kg bw/d (consumer) 796 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	33 mg/m <sup>3</sup> (consumer) 275 mg/m <sup>3</sup> (workers)
	Long-term exposure - local effects	33 mg/m <sup>3</sup> (consumer) 550 mg/m <sup>3</sup> (workers)
<b>CAS: 13463-67-7 titanium dioxide</b>		
Inhalative	Long-term exposure - local effects	0.21 mg/m <sup>3</sup> (consumer) 1.25 mg/m <sup>3</sup> (workers)
<b>PNECs</b>		
<b>CAS: 123-86-4 n-butyl acetate</b>		
fresh water		0.18 mg/l
sea water		0.018 mg/l
intermittent release (fresh water)		0.36 mg/l
STP		35.6 mg/l
sediment (fresh water)		0.981 mg/kg dw
sediment (sea water)		0.098 mg/kg dw
soil		0.09 mg/kg dw
<b>CAS: 108-65-6 2-methoxy-1-methylethyl acetate</b>		
fresh water		0.635 mg/l
sea water		0.064 mg/l
STP		100 mg/l
sediment (fresh water)		3.29 mg/kg dw
sediment (sea water)		0.329 mg/kg dw
soil		0.29 mg/kg dw
<b>CAS: 13463-67-7 titanium dioxide</b>		
fresh water		0.127 mg/l
sea water		1 mg/l
STP		100 mg/l
sediment (fresh water)		1,000 mg/kg dw
sediment (sea water)		100 mg/kg dw
soil		100 mg/kg dw

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**Ingredients with biological limit values:**

**CAS: 78-93-3 Butanone**

BMGV	70 µmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one

**Regulatory information** BMGV: EH40/2020

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Appropriate engineering controls**

No further data; see section 7.

Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid breathing mist/vapours/spray.

Ensure good ventilation/exhaustion at the workplace.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:**

If vapours/aerosols and/or inadequate ventilation are present, respiratory protection must be worn.

Filter type A

**Hand protection**



Protective gloves

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

**Material of gloves**

Material recommendation:

PE/EVAL/PE

Recommended: Protection index 6, corresponding to > 480 minutes permeation time according to EN 374

Material thickness: ≥ 0.4 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**

Wear protective goggles if there is a risk of splashing.

EN 166

**Body protection:** Protective work clothing

**Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Liquid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	No information available.
<b>Melting point/freezing point:</b>	No information available.
<b>Boiling point or initial boiling point and boiling range</b>	80 °C (calculated)
<b>Flammability</b>	Flammable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	1.24 Vol % (calculated)
<b>Upper:</b>	14 Vol % (calculated)
<b>Flash point:</b>	16 °C (calculated)
<b>Decomposition temperature:</b>	No information available.
<b>pH</b>	Not applicable.
<b>Viscosity:</b>	
<b>Kinematic viscosity at 20 °C</b>	100 s/3 mm (EN ISO 2431)
<b>Dynamic:</b>	No information available.
<b>Solubility water:</b>	Insoluble.

123-86-4	n-butyl acetate	5,3 g/l
78-93-3	Butanone	271 g/l

**Partition coefficient n-octanol/water (log value)**

123-86-4	n-butyl acetate	2,3 log Kow
78-93-3	Butanone	0,3 log Kow
108-65-6	2-methoxy-1-methylethyl acetate	1,2 log Kow

<b>Vapour pressure at 20 °C:</b>	15.7892 mbar (calculated)
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.95 g/cm <sup>3</sup> (calculated)

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**Vapour density** No information available.

**9.2 Other information**

**Appearance:**

**Form:** Fluid

**Important information on protection of health and environment, and on safety.**

**Ignition temperature:** 415 °C (calculated)

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Solvent content:**

**Water:** 0 % (w/w)

**VOC (EC)** 72 % (w/w)

72.00 %

**Solids content:** 27.53 % (w/w)

**Change in condition**

**Oxidising properties** No information available.

**Evaporation rate** No information available.

**Information with regard to physical hazard classes**

**Explosives** void

**Flammable gases** void

**Aerosols** void

**Oxidising gases** void

**Gases under pressure** void

**Flammable liquids** Highly flammable liquid and vapour.

**Flammable solids** void

**Self-reactive substances and mixtures** void

**Pyrophoric liquids** void

**Pyrophoric solids** void

**Self-heating substances and mixtures** void

**Substances and mixtures, which emit flammable gases in contact with water** void

**Oxidising liquids** void

**Oxidising solids** void

**Organic peroxides** void

**Corrosive to metals** void

**Desensitised explosives** void

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.

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**Trade name: TOUCH-UP PEN**

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**10.4 Conditions to avoid**

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

**10.5 Incompatible materials:**

Acids, alkalis  
oxidizing agent

**10.6 Hazardous decomposition products:**

No decomposition if used and stored according to specifications.

**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.

**LD/LC50 values relevant for classification:**

**CAS: 123-86-4 n-butyl acetate**

Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	14,000 mg/kg (Rabbit)
Inhalative	LC50/4h	23.4 mg/l (rat)

**CAS: 78-93-3 Butanone**

Oral	LD50	2,193 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (Rabbit)

**Hydrocarbons, C9, aromatics**

Oral	LD50	3,592 mg/kg (rat)
Dermal	LD50	> 3,160 mg/kg (Rabbit)

**CAS: 108-65-6 2-methoxy-1-methylethyl acetate**

Oral	LD50	8,532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

**CAS: 13463-67-7 titanium dioxide**

Oral	LD50	> 5,000 mg/kg (rat)
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**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

**Reproductive toxicity** 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.

**Subacute to chronic toxicity:**

**CAS: 123-86-4 n-butyl acetate**

Inhalative	NOEC	2,400 mg/m <sup>3</sup> (rat) (EPA OTS 798.2450) subchronic
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Trade name: **TOUCH-UP PEN**

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**Other information:**

**Repeated dose toxicity**

**CAS: 13463-67-7 titanium dioxide**

Oral	NOAEL	24,000 mg/kg bw/d (rat) (OECD 407)
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**11.2 Information on other hazards**

**Endocrine disrupting properties**

CAS: 78-93-3	Butanone	List II
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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

**CAS: 123-86-4 n-butyl acetate**

EC50 (48 h)	44 mg/l (daphnia)
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LC50 (96 h)	18 mg/l (fish) (Pimephales promelas)
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NOEC (72 h)	200 mg/l (algae) (Desmodesmus subspicatus)
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NOEC (21 d)	23 mg/l (daphnia) (Daphnia magna)
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**CAS: 78-93-3 Butanone**

EC50 (48 h)	308 mg/l (daphnia)
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LC50 (96 h)	2,993 mg/l (fish)
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EC50 (96 h)	2,029 mg/l (algae)
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**Hydrocarbons, C9, aromatics**

EC50 (48 h)	3.2 mg/l (daphnia) (Daphnia magna) OECD 202
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LL50 (96 h)	9.2 mg/l (fish) (Onchorhynchus mykiss)
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**CAS: 108-65-6 2-methoxy-1-methylethyl acetate**

EC50 (48 h)	> 500 mg/l (daphnia)
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LC50 (96 h)	180 mg/l (fish)
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NOEC (14 d)	47.5 mg/l (fish)
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ErC50 (96 h)	> 1,000 mg/l (algae)
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**CAS: 13463-67-7 titanium dioxide**

EC50 (72 h)	62 mg/l (algae) (Pseudokirchneriella subcapitata)
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	> 1,000 mg/l (daphnia) (Daphnia magna)
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LC50 (96 h)	> 1,000 mg/l (fish) (Pimephales promelas)
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**12.2 Persistence and degradability**

123-86-4	n-butyl acetate	83 % (28 d)
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78-93-3	Butanone	98 % (28 d)
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	Hydrocarbons, C9, aromatics	78 % (28 d)
108-65-6	2-methoxy-1-methylethyl acetate	99 % (28 d)

**12.3 Bioaccumulative potential**

123-86-4	n-butyl acetate	2,3 log Kow
78-93-3	Butanone	0,3 log Kow
108-65-6	2-methoxy-1-methylethyl acetate	1,2 log Kow

**Bioconcentration factor (BCF)**

**CAS: 123-86-4 n-butyl acetate**

BCF 15.3

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

**12.7 Other adverse effects**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Harmful to aquatic life with long lasting effects.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Only dispose of product residues via authorised companies according to local legislation.

**European waste catalogue**

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

**Uncleaned packaging:**

**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

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Packagings that may not be cleansed are to be disposed of in the same manner as the product.

#### SECTION 14: Transport information

**14.1 UN number or ID number**

**ADR/RID/ADN, IMDG, IATA** UN1263

**14.2 UN proper shipping name**

**ADR/RID/ADN** 1263 PAINT

**IMDG, IATA** PAINT

**14.3 Transport hazard class(es)**

**ADR/RID/ADN, IMDG, IATA**



**Class** 3 Flammable liquids.

**Label** 3

**14.4 Packing group**

**ADR/RID/ADN, IMDG, IATA** II

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user** Warning: Flammable liquids.

**Hazard identification number (Kemler code):** 33

**EMS Number:** F-E, S-E

**Stowage Category** B

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

**instruments** Not applicable.

**Transport/Additional information:**

**ADR/RID/ADN**

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**Transport category** 2

**Tunnel restriction code** D/E

**IMDG**

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":** UN 1263 PAINT, 3, II

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## SECTION 15: Regulatory information

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

#### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category** P5c FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t

#### National regulations:

**Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## \* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Training hints

Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

#### Department issuing SDS:

UmEnA GmbH

<http://umena.at>

Email: [office@umena.at](mailto:office@umena.at)

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

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# Safety data sheet

## according to UK REACH



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DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**

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