



Printing date 19.07.2023

Version number 1.2 (replaces version 1.1)

Revision: 19.07.2023

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

1.1 Product identifier

Trade name: **TOUCH-UP PAINT**

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:

Jörg Schölzel

Email: info@farben-senner.de

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. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

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.

Hazard pictograms



GHS02



GHS07

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Trade name: TOUCH-UP PAINT

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Signal word Warning

Hazard-determining components of labelling:

n-butyl acetate
2-methoxy-1-methylethyl acetate
Hydrocarbons, C9, aromatics

Hazard statements

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

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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

The product does not contain substances with endocrine disrupting properties.

* **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

[% (w/w)]

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CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate	25 – 50%
	Flam. Liq. 3, H226 STOT SE 3, 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	2.5 – < 10%
	Flam. Liq. 3, H226 STOT SE 3, H336	
CAS: 112-07-2 EINECS: 203-933-3 Index number: 607-038-00-2 Reg.nr.: 01-2119475112-47-XXXX	2-butoxyethyl acetate	1 – < 2.5%
	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
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	1 – < 2.5%
	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336 EUH066	
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide	≥ 0%
	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.

After skin contact:

Wash with plenty of soap and water.

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.

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After swallowing:

Rinse mouth.

Do NOT induce vomiting.

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:

CO₂, 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, the following can be released:

CO_x

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

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.

See Section 8 for information on personal protection equipment.

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Trade name: TOUCH-UP PAINT

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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.

Prevent formation of aerosols.

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.

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.

Further information about storage conditions: Keep container tightly sealed.

Recommended storage temperature: room temperature

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 ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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CAS: 108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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CAS: 112-07-2 2-butoxyethyl acetate

WEL	Short-term value: 332 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Sk
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CAS: 13463-67-7 titanium dioxide

WEL Long-term value: $10^* 4^{**}$ mg/m³
*total inhalable **respirable

Regulatory information WEL: EH40/2020

DNELs

CAS: 123-86-4 n-butyl acetate

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 ³ (consumer) 300 mg/m ³ (workers)
	Long-term exposure - local effects	35.7 mg/m ³ (consumer) 300 mg/m ³ (workers)
	short-term exposure - systemic effects	300 mg/m ³ (consumer) 600 mg/m ³ (workers)
	short-term exposure - local effects	300 mg/m ³ (consumer) 600 mg/m ³ (workers)

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

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)
	Long-term exposure - local effects	33 mg/m ³ (consumer) 275 mg/m ³ (workers)
Inhalative	Long-term exposure - systemic effects	33 mg/m ³ (consumer) 275 mg/m ³ (workers)
	Long-term exposure - local effects	33 mg/m ³ (consumer) 550 mg/m ³ (workers)

CAS: 112-07-2 2-butoxyethyl acetate

Oral	Long-term exposure - systemic effects	8.6 mg/kg bw/d (consumer)
	short-term exposure - systemic effects	36 mg/kg bw (consumer)
Dermal	Long-term exposure - systemic effects	102 mg/kg bw/d (consumer) 169 mg/kg bw/d (workers)
	short-term exposure - systemic effects	72 mg/kg bw (consumer) 120 mg/kg bw (workers)
Inhalative	Long-term exposure - systemic effects	80 mg/m ³ (consumer) 133 mg/m ³ (workers)
	short-term exposure - local effects	200 mg/m ³ (consumer)

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		333 mg/m ³ (workers)
Hydrocarbons, C9, aromatics		
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) 12.5 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	32 mg/m ³ (consumer) 151 mg/m ³ (workers)
CAS: 13463-67-7 titanium dioxide		
Inhalative	Long-term exposure - local effects	0.21 mg/m ³ (consumer) 1.25 mg/m ³ (workers)
PNECs		
CAS: 123-86-4 n-butyl acetate		
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
CAS: 108-65-6 2-methoxy-1-methylethyl acetate		
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
CAS: 112-07-2 2-butoxyethyl acetate		
fresh water		0.304 mg/l
sea water		0.03 mg/l
intermittent release (fresh water)		0.56 mg/l
STP		90 mg/l
sediment (fresh water)		2.03 mg/kg dw
sediment (sea water)		0.203 mg/kg dw
soil		0.415 mg/kg dw
oral		60 mg/kg food
CAS: 13463-67-7 titanium dioxide		
fresh water		0.127 mg/l

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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

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:

Normally not required.

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection



Protective gloves

EN 374

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Material of gloves

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.

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.

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Eye/face protection



Tightly sealed goggles

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

Physical state	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	No information available.
Melting point/freezing point:	No information available.
Boiling point or initial boiling point and boiling range	124 – 128 °C
Flammability	Flammable.
Lower and upper explosion limit	
Lower:	1.2 Vol %
Upper:	7.5 Vol %
Flash point:	26 °C (DIN 53213)
Decomposition temperature:	No information available.
pH	Not determined.
Viscosity:	
Kinematic viscosity at 20 °C	100 – 150 s (DIN 53211/4)
Dynamic:	No information available.
Solubility water:	

123-86-4	n-butyl acetate	5,3 g/l
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Partition coefficient n-octanol/water (log value)

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

Vapour pressure at 20 °C: ≤ 10.7 hPa (CAS: 123-86-4 n-butyl acetate)

Density and/or relative density

Density at 20 °C:	1.031 g/cm ³ (DIN 53217)
Relative density	Not determined.
Vapour density	No information available.

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9.2 Other information

Appearance:

Form: Fluid

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

Ignition temperature: 315 °C (DIN 51794)

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

Solvent content:

VOC (EC) 51.64 %

Solids content: 48.4 %

Change in condition

Softening point/range

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 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.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Acids, alkalis

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Trade name: TOUCH-UP PAINT

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oxidizing agent

10.6 Hazardous decomposition products: No dangerous decomposition products known.

*** 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:

ATE (Acute Toxicity Estimates)

Oral	LD50	> 64,000 – 300,000 mg/kg (rat)
Dermal	LD50	> 63,200 – 158,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	> 440 – 1,100 mg/l

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: 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: 112-07-2 2-butoxyethyl acetate

Oral	LD50	1,600 – 3,000 mg/kg (rat)
Dermal	LD50	1,580 mg/kg (Rabbit)

Hydrocarbons, C9, aromatics

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

CAS: 13463-67-7 titanium dioxide

Oral	LD50	> 5,000 mg/kg (rat)
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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 ³ (rat) (EPA OTS 798.2450) subchronic
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(Contd. on page 12)



Trade name: TOUCH-UP PAINT

(Contd. of page 11)

Other information:

Repeated dose toxicity

CAS: 13463-67-7 titanium dioxide

Oral NOAEL 24,000 mg/kg bw/d (rat) (OECD 407)

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

*** SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity:

CAS: 123-86-4 n-butyl acetate

EC50 (48 h) 44 mg/l (daphnia)

LC50 (96 h) 18 mg/l (fish) (Pimephales promelas)

NOEC (72 h) 200 mg/l (algae) (Desmodesmus subspicatus)

NOEC (21 d) 23 mg/l (dao) (Daphnia magna)

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

EC50 (48 h) > 500 mg/l (daphnia)

LC50 (96 h) 180 mg/l (fish)

NOEC (14 d) 47.5 mg/l (fish)

ErC50 (96 h) > 1,000 mg/l (algae)

Hydrocarbons, C9, aromatics

EC50 (48 h) 3.2 mg/l (daphnia) (Daphnia magna)
OECD 202

LL50 (96 h) 9.2 mg/l (fish) (Onchorhynchus mykiss)

CAS: 13463-67-7 titanium dioxide

EC50 (72 h) 62 mg/l (algae) (Pseudokirchneriella subcapitata)
> 1,000 mg/l (daphnia) (Daphnia magna)

LC50 (96 h) > 1,000 mg/l (fish) (Pimephales promelas)

12.2 Persistence and degradability

123-86-4	n-butyl acetate	83 % (28 d)
108-65-6	2-methoxy-1-methylethyl acetate	99 % (28 d)
112-07-2	2-butoxyethyl acetate	>70 % (28 d)
	Hydrocarbons, C9, aromatics	78 % (28 d)

12.3 Bioaccumulative potential

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

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

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
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic

Uncleaned packaging:

Recommendation:

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

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

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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	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	F-E,S-E
Stowage Category	A
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: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E

IMDG

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1263 PAINT, 3, III

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

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Trade name: TOUCH-UP PAINT

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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

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- 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

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)
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. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

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Safety data sheet
according to 1907/2006/EC



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

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

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