



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



GHS02

GHS07

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.

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	50 – < 100%
	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	
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.

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Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

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:

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, dangerous combustion gases or vapours may be generated.

In case of fire, the following can be released:

CO_x, NO_x

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.

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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.
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.

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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: 78-93-3 butanone

WEL	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
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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: 13463-67-7 titanium dioxide

WEL	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable
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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
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: 78-93-3 butanone

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)

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Inhalative	Long-term exposure - systemic effects	106 mg/m ³ (consumer) 600 mg/m ³ (workers)
	short-term exposure - systemic effects	450 mg/m ³ (consumer) 900 mg/m ³ (workers)
Hydrocarbons, C9, aromatics		
Oral	Long-term exposure - systemic effects	11 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/d (consumer) 25 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	32 mg/m ³ (consumer) 150 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)
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: 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: 78-93-3 butanone		
fresh water		55.8 mg/l
sea water		55.8 mg/l
intermittent release (fresh water)		55.8 mg/l
STP		709 mg/l
sediment (fresh water)		284.74 mg/kg dw
sediment (sea water)		284.7 mg/kg dw

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soil	22.5 mg/kg dw
oral	1,000 mg/kg food
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: 13463-67-7 titanium dioxide	
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
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: EH40/2011

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.

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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.

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

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

80 °C (calculated)

Flammability

Flammable.

Lower and upper explosion limit

Lower:

1.24 Vol % (calculated)

Upper:

14 Vol % (calculated)

Flash point:

16 °C (calculated)

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Safety data sheet

according to 1907/2006/EC



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Decomposition temperature: No information available.
pH Not applicable.
Viscosity:
Kinematic viscosity at 20 °C 100 s/3 mm (EN ISO 2431)
Dynamic: No information available.
Solubility
water: 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

Vapour pressure at 20 °C: 15.7892 mbar (calculated)

Density and/or relative density

Density at 20 °C: 0.95 g/cm³ (calculated)

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

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 Highly flammable liquid and vapour.

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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

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)

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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)

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

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		
CAS: 78-93-3	butanone	List II

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: 78-93-3 butanone		
EC50 (48 h)	308 mg/l (daphnia)	
LC50 (96 h)	2,993 mg/l (fish)	
EC50 (96 h)	2,029 mg/l (algae)	

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Hydrocarbons, C9, aromatics	
EC50 (48 h)	3.2 mg/l (daphnia) (<i>Daphnia magna</i>) OECD 202
LL50 (96 h)	9.2 mg/l (fish) (<i>Onchorhynchus mykiss</i>)
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)
CAS: 13463-67-7 titanium dioxide	
EC50 (72 h)	62 mg/l (algae) (<i>Pseudokirchneriella subcapitata</i>) > 1,000 mg/l (daphnia) (<i>Daphnia magna</i>)
LC50 (96 h)	> 1,000 mg/l (fish) (<i>Pimephales promelas</i>)

12.2 Persistence and degradability

123-86-4	n-butyl acetate	83 % (28 d)
78-93-3	butanone	98 % (28 d)
	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

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.

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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
HP7	Carcinogenic
HP14	Ecotoxic

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

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

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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

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.

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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. 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