



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

1.1 Product identifier

Trade name: TOUCH-UP PEN

UFI: AH00-E04R-P00S-T48A

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 Marktl/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

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

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 CLP regulation.

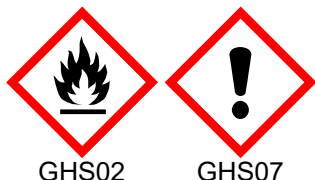
(Contd. on page 2)



Trade name: TOUCH-UP PEN

(Contd. of page 1)

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



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 | |

(Contd. on page 3)

Safety data sheet

acc. to Reg. (EC) No 1907/2006












Page 3/16

Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

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  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336 EUH066 | 7 – < 10% |
| 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  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  STOT SE 3, H335-H336 EUH066 | 7 – < 10% |
| 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  Flam. Liq. 3, H226  STOT SE 3, H336 | 3 – < 5% |
| CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX | titanium dioxide  Carc. 2, H351 | 3 – < 5% |

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.

(Contd. on page 4)



Trade name: TOUCH-UP PEN

(Contd. of page 3)

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.

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.

(Contd. on page 5)



Trade name: TOUCH-UP PEN

(Contd. of page 4)

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

| | |
|-------|---|
| OEL | Short-term value: 723 mg/m ³ , 150 ppm |
| | Long-term value: 241 mg/m ³ , 50 ppm |
| IOELV | |

(Contd. on page 6)



Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 5)

CAS: 78-93-3 butanone

OEL Short-term value: 900 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm
Skin, IOELV

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

OEL Short-term value: 550 mg/m³, 100 ppm
Long-term value: 275 mg/m³, 50 ppm
Skin, IOELV

CAS: 13463-67-7 titanium dioxide

OEL Long-term value: 10* 4** mg/m³
*total inhalable **respirable dust

Regulatory information OEL: 2024 CoP for the Safety, Health and Welfare at Work

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) |
| | short-term exposure - systemic effects | 11 mg/kg bw/d (workers) |
| Inhalative | Long-term exposure - systemic effects | 6 mg/kg bw (consumer) |
| | | 11 mg/kg bw (workers) |
| | 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: 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) |
| 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 | 7.5 mg/kg bw/d (consumer) |
| Dermal | Long-term exposure - systemic effects | 7.5 mg/kg bw/d (consumer) |

(Contd. on page 7)



Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 6)

| | | |
|------------|---------------------------------------|---|
| Inhalative | Long-term exposure - systemic effects | 12.5 mg/kg bw/d (workers) 32 mg/m ³ (consumer) 151 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: 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 |

(Contd. on page 8)



Trade name: TOUCH-UP PEN

(Contd. of page 7)

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.

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

(Contd. on page 9)

Safety data sheet

acc. to Reg. (EC) No 1907/2006



Page 9/16

Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 8)

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)

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.

(Contd. on page 10)

Safety data sheet

acc. to Reg. (EC) No 1907/2006



Page 10/16

Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 9)

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. |
| 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.

(Contd. on page 11)



Trade name: TOUCH-UP PEN

(Contd. of page 10)

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) |
|------|------|---------------------|

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

Serious eye damage/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) |
|------|-------|------------------------------------|

(Contd. on page 12)



Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 11)

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 (daphnia) (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) |

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: 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) (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) |
| 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 |

(Contd. on page 13)

Safety data sheet

acc. to Reg. (EC) No 1907/2006



Page 13/16

Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 12)

| | | |
|----------|---------------------------------|-------------|
| 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.

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

(Contd. on page 14)

Safety data sheet

acc. to Reg. (EC) No 1907/2006

Page 14/16



Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 13)

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2004/42/EC

VOC product category: (Cat. B/e) ; VOC limit: 840 g/l

Maximum VOC content of the ready-to-use product (in g/L): 703

(Contd. on page 15)



Trade name: TOUCH-UP PEN

(Contd. of page 14)

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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

| | | |
|--------------|----------|---|
| CAS: 78-93-3 | butanone | 3 |
|--------------|----------|---|

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

| | | |
|--------------|----------|---|
| CAS: 78-93-3 | butanone | 3 |
|--------------|----------|---|

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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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.

(Contd. on page 16)



Printing date 03.07.2024

Version number 2.2 (replaces version 2.1)

Revision: 03.07.2024

Trade name: TOUCH-UP PEN

(Contd. of page 15)

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.

Classification according to Regulation (EC) No 1272/2008

| | |
|--|--|
| Flammable liquids | On basis of test data |
| Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |

Department issuing SDS:

UmEnA GmbH

<http://umena.at>

Email: office@umena.at

Date of previous version: 27.06.2023

Version number of previous version: 2.1

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 (REACH)

PNEC: Predicted No-Effect Concentration (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.**