



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 7/6/2017
Version: 3
Language: en-GB,IE
Date of print: 12/10/2017

touch-up pen

Material number 46076L00

Page: 1 of 11

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

General use: Paint

1.3 Details of the supplier of the safety data sheet

Company name: Grohe AG
Street/POB-No.: Industriepark Edelburg
Postal Code, city: 58675 Hemer
Germany
WWW: www.grohe.com
E-mail: info@grohe.com
Telephone: +49 (0)2372 93-0
Telefax: +49 (0)2372 93-1322
Dept. responsible for information:
Telephone: +49 (0)2372 93-2037
sustainability@grohe.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.
STOT SE 3; H336 May cause drowsiness or dizziness.
(EUH066) Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.



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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.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapours.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains: n-Butyl acetate

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may have a narcotic effect. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Pen with liquid active agent:

Contains Mixture of the substances listed below with non-hazardous additions.

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 204-658-1 CAS 123-86-4	n-Butyl acetate	25 - 50 %	Flam. Liq. 3; H226. STOT SE 3; H336. (EUH066).
EC No. 265-198-5 CAS 64742-94-5	Solvent naphtha (petroleum), heavy aromatic	2.5 - 5 %	Asp. Tox. 1; H304.
EC No. 215-535-7 CAS 1330-20-7	Xylene (isomeric mixture)	2.5 - 5 %	Flam. Liq. 3; H226. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Irrit. 2; H315.
EC No. 200-661-7 CAS 67-63-0	Isopropyl alcohol	< 2.5 %	Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336.
EC No. 265-199-0 CAS 64742-95-6	Solvent naphtha (petroleum), light arom	< 0.5 %	Flam. Liq. 3; H226. STOT SE 3; H335, H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).

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



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Hazardous impurities Contents of Benzene < 0.1%

SECTION 4: First aid measures

4.1 Description of first aid measures

- In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles. Seek medical aid in case of troubles.
- Following skin contact: Thoroughly wash skin with soap and water. Change contaminated clothing. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.
- After swallowing: Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Subsequently consult physician.

4.2 Most important symptoms and effects, both acute and delayed

Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media:
Sand, extinguishing powder, carbon dioxide.
- Extinguishing media which must not be used for safety reasons:
water

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour.
With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.
In case of fire may be liberated: carbon monoxide and carbon dioxide

5.3 Advice for firefighters

- Special protective equipment for firefighters:
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.
- Additional information: Hazchem-Code: •3Y
Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.
Move undamaged containers from immediate hazard area if it can be done safely.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Avoid contact with the substance.
Eliminate all ignition sources if safe to do so. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.
Keep away from sources of ignition.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Avoid the formation of aerosol. Do not inhale vapours or mist.
Use only in well-ventilated areas. Do not allow containers to stand open.
Avoid contact with skin and eyes.

Precautions against fire and explosion:
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Keep only in the original container in a cool, well-ventilated place.
Keep container tightly closed and dry.
Protect from heat and direct sunlight.
Store containers in upright position. Explosion protection required.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
123-86-4	n-Butyl acetate	Great Britain: MEL/OES-STEL Great Britain: MEL/OES-TWA Ireland: 15 minutes Ireland: 8 hours	966 mg/m ³ ; 200 ppm 724 mg/m ³ ; 150 ppm 950 mg/m ³ ; 200 ppm 710 mg/m ³ ; 150 ppm
64742-94-5	Solvent naphtha (petroleum), heavy aromatic	Great Britain: WEL-TWA	500 mg/m ³ (Aromatics)
1330-20-7	Xylene (isomeric mixture)	Europe: IOELV: STEL Europe: IOELV: TWA Great Britain: WEL-STEL Great Britain: WEL-TWA Ireland: 15 minutes Ireland: 8 hours	442 mg/m ³ ; 100 ppm (May be absorbed through the skin.) 221 mg/m ³ ; 50 ppm (May be absorbed through the skin.) 441 mg/m ³ ; 100 ppm 220 mg/m ³ ; 50 ppm 442 mg/m ³ ; 100 ppm (May be absorbed through the skin.) 221 mg/m ³ ; 50 ppm (May be absorbed through the skin.)
67-63-0	Isopropyl alcohol	Great Britain: WEL-STEL Great Britain: WEL-TWA Ireland: 15 minutes Ireland: 8 hours	1250 mg/m ³ ; 500 ppm 999 mg/m ³ ; 400 ppm 400 ppm 200 ppm
64742-95-6	Solvent naphtha (petroleum), light arom	Great Britain: WEL-TWA	500 mg/m ³ (Aromatics)

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
1330-20-7	Xylene (isomeric mixture)	Great Britain: BMGV, urine	650 mmol/mol creatinine	methyl hippuric acid	end of exposure or end of shift

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use combination filter type A/P2 according to EN 14387. Have a breathing apparatus that is not dependent on the circulating air ready for emergencies.



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Hand protection:	Protective gloves according to EN 374. Glove material: butyl caoutchouc (butyl rubber) - Layer thickness: 0.4 mm Breakthrough time: > 480 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.
General protection and hygiene measures:	Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not breathe vapour/aerosol. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. When using do not eat, drink or smoke. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: varying colours
Odour:	characteristic
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	124 °C
Flash point/flash point range:	27 °C
Evaporation rate:	No data available
Flammability:	Flammable liquid and vapour.
Explosion limits:	LEL (Lower Explosion Limit): 1.20 Vol-% UEL (Upper Explosive Limit): 7.50 Vol-%
Vapour pressure:	at 20 °C: 10.7 hPa
Vapour density:	No data available
Density:	at 20 °C: 0.96 g/mL
Water solubility:	slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
Viscosity, kinematic:	at 20 °C: 90 s (ISO 4 mm)
Explosive properties:	Product is not explosive. Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available

9.2 Other information

Solvent content:	51.25 %
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SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect against direct sunlight.

10.5 Incompatible materials

Keep away from oxidizing substance.

10.6 Hazardous decomposition products

In case of fire may be liberated: carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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

Repeated exposure may cause skin dryness or cracking.

Eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Not known to cause sensitization.

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

Not known to cause sensitization.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.



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Other information: Information about Butan-1-ol:
LD50 Rat, oral: 790 mg/kg
LD50 Rabbit, dermal: 3400 mg/kg
LC50 Rat, inhalative: 8000 mg/L/4h

Symptoms

In case of inhalation: Vapours in high concentrations have anaesthetic effect.
After contact with skin: Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Further details: No data available

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.
Avoid spills and leaks. Very small amounts contaminates drinking water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 01 11* = Waste paint and varnish containing organic solvents or other dangerous substances

* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.
Do not dispose of with household waste.
Do not empty into drains.

Contaminated packaging

Waste key number: 15 01 04 = Metallic packaging.

Recommendation: Handle empty containers with care. Incineration may cause explosion.
Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.



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SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1263

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1263, Paint

14.3 Transport hazard class(es)

ADR/RID:

Class 3, Code: F1

IMDG:

Class 3, Subrisk-

IATA-DGR:

Class 3



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

III

14.5 Environmental hazards

Marine pollutant:

no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:

ADR/RID: Kemmler-number 30, UN number UN 1263

Hazard label:

3

Special provisions:

163 367 650

Limited quantities:

5 L

EQ:

E1

Contaminated packaging - Instructions:

P001 - IBC03 - LP01 - R001

Contaminated packaging - Special provisions:

PP1

Special provisions for packing together:

MP19

Portable tanks - Instructions:

T2

Portable tanks - Special provisions:

TP1 - TP29

Tank coding:

LGBF

Tunnel restriction code:

D/E



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Sea transport (IMDG)

EmS: F-E, S-E
Special provisions: 163, 223, 367, 955
Limited quantities: 5 L
Excepted quantities: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T2
Tank instructions - Provisions: TP1, TP29
Stowage and handling: Category A.
Properties and observations: Miscibility with water depends upon the composition.
Segregation group: none

Air transport (IATA)

Hazard label: Flamm. liquid
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L
Passenger and Cargo Aircraft: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L
Cargo Aircraft only: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L
Special provisions: A3 A72 A192
Emergency Response Guide-Code (ERG): 3L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: •3Y
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
51.25 % by weight = 486 g/L



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Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements:

H336

May cause drowsiness or dizziness.

EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P260

Do not breathe vapours.

P271

Use only outdoors or in a well-ventilated area.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405

Store locked up.

P501

Dispose of contents/container to hazardous or special waste collection point.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H225 = Highly flammable liquid and vapour.

H226 = Flammable liquid and vapour.

H304 = May be fatal if swallowed and enters airways.

H312 = Harmful in contact with skin.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

H335 = May cause respiratory irritation.

H336 = May cause drowsiness or dizziness.

H411 = Toxic to aquatic life with long lasting effects.

EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change:

Changes in section 1: Emergency phone number (Denmark)

Date of first version:

17/2/2016

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.