

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1567

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 1/25

FSG-Graining Pen (various colours)

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

1.1. Product identifier

Trade name/designation:

FSG-Graining Pen (various colours)

Article No.:

PI73000

UFI:

MD5H-466C-J00Q-GKDS

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

Use of the substance/mixture:

Restoration Kit

Relevant identified uses:

Sector of uses [SU]

SU 6a: Manufacture of wood and wood products

Product Categories [PC]

PC 9: Coatings and paints, fillers, putties, thinners

Article categories [AC]

AC 11: Wood articles: furniture

1.3. Details of the supplier of the safety data sheet

Manufacturer:

FSG Schäfer GmbH

Boschstraße 14

48703 Stadthorn

GERMANY

Telephone: +49 (0) 25 63 - 93 95 - 0

Telefax: +49 (0) 25 63 - 93 95 - 25

E-mail: verkauf@fsg-schaefer.de

Website: www.fsg-schaefer.de

E-mail (competent person): sdb@fsg-schaefer.de

Only for information: National Poisons Information Service (Birmingham Unit): 844 892 0111

1.4. Emergency telephone number

24h: Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department., Office FSG: +49 (0) 2563 93950. (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Germ cell mutagenicity (<i>Muta. 1B</i>)	H340: May cause genetic defects.	
Carcinogenicity (<i>Carc. 1B</i>)	H350: May cause cancer.	

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1567

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 2/25

FSG-Graining Pen (various colours)

Hazard classes and hazard categories	Hazard statements	Classification procedure
STOT-repeated exposure (STOT RE 2)	H373: May cause damage to organs through prolonged or repeated exposure. (central nervous system)	

2.2. Label elements

Labelling according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard pictograms:



GHS02
Flame



GHS05
Corrosion



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard statements for physical hazards	
H226	Flammable liquid and vapour.

Hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure. (central nervous system)

Supplemental hazard information	
EUH208	Contains Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-). May produce an allergic reaction.

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/Personal protection.

Precautionary statements Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.

Precautionary statements Disposal	
P501	Dispose of contents/container to Disposal methods.

Special rules for supplemental label elements for certain mixtures:

25,3 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

26,3 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1567

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 3/25

FSG-Graining Pen (various colours)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
CAS No.: 71-36-3 EC No.: 200-751-6 Index No.: 603-004-00-6 REACH No.: 01-2119484630-38	butan-1-ol Acute Tox. 4 (H302), Eye Dam. 1 (H318), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336), Skin Irrit. 2 (H315) Danger	18 - < 35 weight-%
CAS No.: 107-98-2 EC No.: 203-539-1 Index No.: 603-064-00-3 REACH No.: 01-2119457435-35	1-methoxypropan-2-ol Flam. Liq. 3 (H226), STOT SE 3 (H336) Warning	15 - < 30 weight-%
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5	ethanol Flam. Liq. 2 (H225) Danger	14 - < 25 weight-%
EC No.: 927-241-2 Index No.: 649-330-00-2 REACH No.: 01-2119471843-32-0000	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics Asp. Tox. 1 (H304), Carc. 1B (H350), Muta. 1B (H340), STOT RE 1 (H372) Danger	4 - < 7 weight-%
CAS No.: 108-65-6 EC No.: 203-603-9 Index No.: 607-195-00-7	2-methoxy-1-methylethyl acetate Flam. Liq. 3 (H226) Warning	0 - < 1 weight-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3	butanone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	0 - ≤ 0.767939 weight-%
CAS No.: 123-86-4 EC No.: 204-658-1 Index No.: 607-025-00-1 REACH No.: 01-2119485493-29-0007	n-butyl acetate Flam. Liq. 3 (H226), STOT SE 3 (H336) Warning EUH066	0 - ≤ 0.492283 weight-%
CAS No.: 1330-20-7 EC No.: 215-535-7 Index No.: 601-022-00-9 REACH No.: 01-2119488216-32	xylene Acute Tox. 4 (H332, H312), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315) Warning	0 - < 0.18 weight-%
CAS No.: 85186-66-9	Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4- nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) Repr. 1B (H360), STOT RE 2 (H373), Skin Sens. 1B (H317) Danger	0 - < 0.15 weight-%
CAS No.: 85186-67-0	Amines, C10-14-branched and linear alkyl, bis[1-[(2- hydroxy-5- nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) Repr. 1B (H360), STOT RE 2 (H373), Skin Sens. 1B (H317) Danger	0 - < 0.15 weight-%
EC No.: 943-145-3 REACH No.: 01-2120759947-32	Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2- phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2- hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3- onato(2-)] chromate(1-) Aquatic Chronic 3 (H412), Skin Sens. 1B (H317) Warning	0 - < 0.13 weight-%

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 4/25

FSG-Graining Pen (various colours)

Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
CAS No.: 78-83-1 EC No.: 201-148-0 Index No.: 603-108-00-1 REACH No.: 01-2119484609-23	2-methylpropan-1-ol Eye Dam. 1 (H318), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336), Skin Irrit. 2 (H315) Danger	0 - < 0.08 weight-%
CAS No.: 100-41-4 EC No.: 202-849-4 Index No.: 601-023-00-4 REACH No.: 01-2119489370-35	ethylbenzene Acute Tox. 4 (H332), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT RE 2 (H373) Danger	0 - < 0.08 weight-%
CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0 REACH No.: 01-2119475108-36	2-butoxyethanol Acute Tox. 4 (H332, H302), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning Acute Toxicity Estimate ATE (oral): 1,200 mg/kg	0 - < 0.03 weight-%
CAS No.: 70657-70-4 EC No.: 274-724-2 Index No.: 607-251-00-0	2-methoxypropyl acetate Flam. Liq. 3 (H226), Repr. 1B (H360D***), STOT SE 3 (H335) Danger	0 - < 0.01 weight-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention if you feel unwell.

In case of skin contact:

Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Skin corrosion/irritation, Serious eye damage/eye irritation, Irritation to respiratory tract, Dizziness, Dizziness.

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:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Full water jet.

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 5/25

FSG-Graining Pen (various colours)

5.2. Special hazards arising from the substance or mixture

Highly flammable Combustible.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic. In case of fire may be liberated: Carbon dioxide, Carbon monoxide, Pyrolysis products, toxic, carbon black.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Soak up inert absorbent and dispose as waste requiring special attention.

For cleaning up:

Water (with cleaning agent). Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Do not breathe gas/vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Fire prevent measures:

Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 6/25

FSG-Graining Pen (various colours)

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on storage assembly:

Keep away from combustible material. Do not store together with:

Combustible substances of acute toxicity, category 1 and 2 / very toxic substances

Non-combustible substances of acute toxicity, category 1 and 2 / very toxic substances

Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Storage class (TRGS 510, Germany): 3 - Flammable liquids

Further information on storage conditions:

Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

Industrial sector specific solutions:

Solvent-based varnishes/wood glazes, low in aromatics

GISCODE:

M-KH03

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IE	butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	① 20 ppm
WEL (GB)	butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	② 50 ppm (154 mg/m ³) ⑤ (may be absorbed through the skin)
IE	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ IOELV
IOELV (EU)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (560 mg/m ³) ⑤ (may be absorbed through the skin)
IE	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
WEL (GB)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,920 mg/m ³)

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 7/25

FSG-Graining Pen (various colours)

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IE	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (may be absorbed through the skin) SK, IOELV
IOELV (EU)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (274 mg/m ³) ② 100 ppm (548 mg/m ³) ⑤ (may be absorbed through the skin)
IE	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
WEL (GB)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (899 mg/m ³)
IE	n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m ³) ② 150 ppm (723 mg/m ³) ⑤ IOELV
IOELV (EU)	n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m ³) ② 150 ppm (723 mg/m ³)
IE	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m ³) ② 100 ppm (441 mg/m ³) ⑤ (may be absorbed through the skin)
IE	2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	① 50 ppm (150 mg/m ³) ② 75 ppm (225 mg/m ³)
WEL (GB)	2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	① 50 ppm (154 mg/m ³) ② 75 ppm (231 mg/m ³)
IE	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (may be absorbed through the skin)

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 8/25

FSG-Graining Pen (various colours)

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (441 mg/m ³) ② 125 ppm (552 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 25 ppm (123 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)
IE	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin) SK, IOELV
IOELV (EU)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BMGV (GB)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	650 mmol/mol creatinine	① methyl hippuric acid ② urine ③ end of exposure or end of shift
BMGV (GB)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	240 mmol/mol creatinine	① Butoxyacetic acid ② urine ③ end of exposure or end of shift

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	55.357 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	310 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	155 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	3.125 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	1.562 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	369 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	43.9 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 9/25

FSG-Graining Pen (various colours)

Substance name	DNEL value	① DNEL type ② Exposure route
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	553.5 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	553.5 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	183 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	78 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	33 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	114 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	1,900 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	343 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	206 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	87 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	87 mg/kg bw/ day	① DNEL worker ② Acute - oral, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	185 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	77 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	46 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	300 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	46 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 10/25

FSG-Graining Pen (various colours)

Substance name	DNEL value	① DNEL type ② Exposure route
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	275 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	33 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	33 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	500 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	796 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	320 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	36 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	1,161 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	412 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	31 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	48 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	102.34 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	859.7 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	480 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	600 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	11 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 11/25

FSG-Graining Pen (various colours)

Substance name	DNEL value	① DNEL type ② Exposure route
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	310 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	55 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	77 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	15 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	293 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	180 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.6 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
butyl glycolate CAS No.: 7397-62-8 EC No.: 230-991-7	58.8 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
butyl glycolate CAS No.: 7397-62-8 EC No.: 230-991-7	17.4 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
butyl glycolate CAS No.: 7397-62-8 EC No.: 230-991-7	17.4 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
butyl glycolate CAS No.: 7397-62-8 EC No.: 230-991-7	41.7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
butyl glycolate CAS No.: 7397-62-8 EC No.: 230-991-7	25 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
butyl glycolate CAS No.: 7397-62-8 EC No.: 230-991-7	4.2 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	98 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	59 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	1,091 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	426 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	246 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	147 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 12/25

FSG-Graining Pen (various colours)

Substance name	DNEL value	① DNEL type ② Exposure route
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	6.3 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	26.7 mg/kg bw/day	① DNEL worker ② Acute - oral, systemic effects
copper(2+) hydrogen 3-[(2-ethylhexyl)oxy]propan-1-amine 14,24,32-tris({[3-[(2-ethylhexyl)oxy]propyl]amino)oxy]sulfonyl} octaazanonacyclo[28.6.1.1.3 ³ ,10,1 ¹² ,19,1 ²¹ ,28.0 nonadecaene-37,39-diide-5-sulfonate CAS No.: 94277-77-7 EC No.: 304-661-9	10 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects

Substance name	PNEC Value	① PNEC type
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	82 µg/L	① PNEC aquatic, freshwater
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	8.2 µg/L	① PNEC aquatic, marine water
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.0324 mg/kg	① PNEC aquatic, marine water
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	2.476 mg/L	① PNEC sewage treatment plant
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.324 mg/kg	① PNEC sediment, freshwater
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.0166 mg/kg	① PNEC soil
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	2.25 mg/L	① PNEC aquatic, intermittent release
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	10 mg/L	① PNEC aquatic, freshwater
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	1 mg/L	① PNEC aquatic, marine water
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	100 mg/L	① PNEC sewage treatment plant
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	52.3 mg/kg	① PNEC sediment, freshwater
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	5.2 mg/kg	① PNEC sediment, marine water
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	4.59 mg/kg	① PNEC soil
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	100 mg/L	① PNEC aquatic, intermittent release

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 13/25

FSG-Graining Pen (various colours)

Substance name	PNEC Value	① PNEC type
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.96 mg/L	① PNEC aquatic, freshwater
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.76 mg/L	① PNEC aquatic, marine water
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	580 mg/L	① PNEC sewage treatment plant
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	3.6 mg/kg	① PNEC sediment, freshwater
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.63 mg/kg	① PNEC soil, freshwater
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	635 µg/L	① PNEC aquatic, marine water
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	63.5 µg/L	① PNEC aquatic, marine water
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	100 mg/L	① PNEC sewage treatment plant
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	3.29 mg/kg	① PNEC sediment, freshwater
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	0.329 mg/kg	① PNEC sediment, marine water
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	0.29 mg/kg	① PNEC soil
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	6.35 mg/L	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, freshwater
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, marine water
butanone CAS No.: 78-93-3 EC No.: 201-159-0	709 mg/L	① PNEC sewage treatment plant
butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.74 mg/kg	① PNEC sediment, freshwater
butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.7 mg/kg	① PNEC sediment, marine water
butanone CAS No.: 78-93-3 EC No.: 201-159-0	1 g/kg	① PNEC secondary poisoning
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3 EC No.: 201-159-0	22.5 mg/kg	① PNEC soil, freshwater

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 14/25

FSG-Graining Pen (various colours)

Substance name	PNEC Value	① PNEC type
Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine CAS No.: 162627-17-0 EC No.: 605-296-0	5.8 mg/kg bw/day	① PNEC soil
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.18 mg/L	① PNEC aquatic, freshwater
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.018 mg/L	① PNEC aquatic, marine water
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	35.6 mg/L	① PNEC sewage treatment plant
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.981 mg/L	① PNEC sediment, freshwater
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.0981 mg/L	① PNEC sediment, marine water
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.36 mg/L	① PNEC aquatic, intermittent release
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.0903 mg/L	① PNEC soil, freshwater
Amines, C10-C14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtalenolato(2-)]chromate(1-) CAS No.: 85186-64-7	0.5 mg/m ³	① PNEC air
Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtalenolato(2-)]chromate(1-) CAS No.: 85186-66-9	0.5 mg/m ³	① PNEC air
Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtalenolato(2-)]chromate(1-) CAS No.: 85186-67-0	0.5 mg/m ³	① PNEC air
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	400 µg/L	① PNEC aquatic, freshwater
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	40 µg/L	① PNEC aquatic, marine water
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	10 mg/L	① PNEC sewage treatment plant
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	1.56 mg/kg bw/day	① PNEC sediment, freshwater
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	156 mg/kg bw/day	① PNEC sediment, marine water
2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	11 mg/L	① PNEC aquatic, intermittent release

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 15/25

FSG-Graining Pen (various colours)

Substance name	PNEC Value	① PNEC type
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	100 µg/L	① PNEC aquatic, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	100 µg/L	① PNEC aquatic, marine water
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	9.6 mg/L	① PNEC sewage treatment plant
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	13.7 mg/kg	① PNEC sediment, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	13.7 mg/kg	① PNEC sediment, marine water
butyl glycollate CAS No.: 7397-62-8 EC No.: 230-991-7	50 µg/L	① PNEC aquatic, freshwater
butyl glycollate CAS No.: 7397-62-8 EC No.: 230-991-7	5 µg/L	① PNEC aquatic, marine water
butyl glycollate CAS No.: 7397-62-8 EC No.: 230-991-7	232 mg/L	① PNEC sewage treatment plant
butyl glycollate CAS No.: 7397-62-8 EC No.: 230-991-7	0.203 mg/kg	① PNEC sediment, freshwater
butyl glycollate CAS No.: 7397-62-8 EC No.: 230-991-7	0.0203 mg/kg	① PNEC sediment, marine water
butyl glycollate CAS No.: 7397-62-8 EC No.: 230-991-7	500 µg/L	① PNEC aquatic, intermittent release
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	8.8 mg/L	① PNEC aquatic, freshwater
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	880 µg/L	① PNEC aquatic, marine water
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	463 mg/L	① PNEC sewage treatment plant
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	34.6 mg/kg	① PNEC sediment, freshwater
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	3.46 mg/kg	① PNEC sediment, marine water
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	2.33 mg/kg	① PNEC soil
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	20 mg/kg	① PNEC secondary poisoning
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	26.4 mg/L	① PNEC aquatic, intermittent release

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1577

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 16/25

FSG-Graining Pen (various colours)

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection EN 166.

Skin protection:

Tested protective gloves must be worn EN ISO 374
Suitable material: NBR (Nitrile rubber) >0,7 mm, Breakthrough time: >480 min.
In the case of wanting to use the gloves again, clean them before taking off and air them well.
Breakthrough times and swelling properties of the material must be taken into consideration.

Thermal hazards:

Risk of explosion if heated under confinement.

Other protection measures:

Wear suitable protective clothing. When using do not eat, drink or smoke.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: various

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7	20 °C	
Melting point	not determined		
Freezing point	not determined		
Initial boiling point and boiling range	not determined		
Decomposition temperature	not determined		
Flash point	23 °C		
Evaporation rate	not determined		
Auto-ignition temperature	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	not determined		
Vapour density	not determined		
Density	not determined		
Relative density	not determined		
Bulk density	not determined		
Water solubility	partially miscible		
Partition coefficient: n-octanol/water	not determined		
Dynamic viscosity	not determined		
Kinematic viscosity	not determined		

9.2. Other information

No data available

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 17/25

FSG-Graining Pen (various colours)

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

Oxidising agent, strong.

10.6. Hazardous decomposition products

Gases/vapours, toxic. In case of fire may be liberated: Flammable solvent vapor mixtures are possible.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

LD₅₀ oral: 790 mg/kg (Rat) South African Medical Journal. Vol. 43, Pg. 795, 1969.

LD₅₀ dermal: 3,400 mg/kg (Rabbit) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 10, 1974.

LC₅₀ Acute inhalation toxicity (vapour): 24.3 mg/L 4 h (Rat) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 10, 1974.

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

LD₅₀ oral: 3,739 - 4,277 mg/kg (Rat)

LD₅₀ dermal: 2,000 mg/kg (Rat)

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2

LD₅₀ oral: >15,000 mg/kg (Rat) MSDS Distributor

LD₅₀ dermal: >5,000 mg/kg (Rabbit) MSDS Distributor

LC₅₀ Acute inhalation toxicity (dust/mist): >6.1 mg/L 4 h (Rat) MSDS Distributor

2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9

LD₅₀ oral: 8,530 mg/kg (Ratte) Dow Chemical Company Reports. Vol. MSD-1582

LD₅₀ dermal: >5,000 mg/kg (Kaninchen) Dow Chemical Company Reports. Vol. MSD-1582

butanone CAS No.: 78-93-3 EC No.: 201-159-0

LD₅₀ oral: 2,740 mg/kg (Rat) Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971.

LD₅₀ dermal: 6,480 mg/kg (Rabbit) Shell Chemical Company. Vol. MSDS-5390-4,

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

LD₅₀ oral: 10,760 mg/kg (Ratte) OECD Prüfrichtlinie 423

LD₅₀ dermal: >14,112 mg/kg (Rabbit) OECD Prüfrichtlinie 402

LC₅₀ Acute inhalation toxicity (dust/mist): 23.4 mg/L 4 h (Rat) OECD Prüfrichtlinie 403

xylene CAS No.: 1330-20-7 EC No.: 215-535-7

LD₅₀ oral: 4,300 mg/kg (Rat) AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956.

LD₅₀ dermal: >1,700 mg/kg (Rabbit) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974.

LC₅₀ Acute inhalation toxicity (dust/mist): 21.7 mg/L 4 h (Rat) Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974.

Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-66-9

LD₅₀ oral: >10,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 18/25

FSG-Graining Pen (various colours)

Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-67-0

LD₅₀ oral: >10,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) EC No.: 943-145-3

LD₅₀ oral: 10,000 mg/kg (Rat)

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

LD₅₀ oral: 3,500 mg/kg (Rat)

LD₅₀ dermal: 17.8 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (dust/mist): 3,500 mg/L (Rat)

2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0

ATE (oral)¹: 1,200 mg/kg

LD₅₀ oral: 470 mg/kg (Rat) GESTIS

LD₅₀ dermal: 220 mg/kg (Rabbit) GESTIS

LC₅₀ Acute inhalation toxicity (dust/mist): 2.17 mg/L 4 h (Rat) GESTIS

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

Contains Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-). May produce an allergic reaction.

Germ cell mutagenicity:

May cause genetic defects.

Carcinogenicity:

May cause cancer.

Reproductive toxicity:

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

STOT-single exposure:

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

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

Additional information:

No data available

11.2. Information on other hazards

No data available

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 19/25

FSG-Graining Pen (various colours)

SECTION 12: Ecological information

12.1. Toxicity

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6
LC ₅₀ : 100 - 2,300 mg/L 4 d (fish) Mattson, V.R., J.W. Arthur, and C.T. Walbridge 1976. Acute Toxicity of Selected Organic Compounds to Fathead Minnows. EPA-600/3-76-097, U.S.EPA, Duluth, MN :12 p.
LC ₅₀ : 1,980 - 1,980 mg/L 2 d (crustaceans) Kuhn, R., M. Pattard, K.D. Pernak, and A. Winter 1989. Results of the Harmful Effects of Selected Water Pollutants (Anilines, Phenols, Aliphatic Compounds) to Daphnia magna. Water Res. 23(4):495-499
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1
LC ₅₀ : 1,000 - 20,800 mg/L 4 d (fish) ECHA
LC ₅₀ : 21,100 - 25,900 mg/L 2 d (crustaceans) ECHA
EC ₅₀ : 1,000 mg/L (Algae/water plant) ECHA
NOEC: 1,000 - 4,640 mg/L 4 d (fish) ECHA
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2
LC ₅₀ : 10 - ≤100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) MSDS Distributor
LC ₅₀ : 10 - ≤100 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) MSDS Distributor
LC ₅₀ : >100 mg/L (Algae/water plant) MSDS Distributor
LC ₅₀ : >1,000 mg/L (Mikroorganismen) MSDS Distributor
LC ₅₀ : >10 - <30 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC ₅₀ : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EL 50 SDB BR
EC ₅₀ : >22 - <46 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) EL 50 SDB BR
NOEC: <1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) NOELR SDB BR
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9
LC ₅₀ : 100 - 180 mg/L 4 d (fish)
EC ₅₀ : 500 mg/L 2 d (crustaceans)
NOEC: 100 mg/L 4 d (fish)
NOEC: 63.5 mg/L 12 d (fish)
NOEC: 100 mg/L 21 d (crustaceans)
NOEC: 1,000 mg/L 4 d (Algae/water plant)
butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC ₅₀ : 3,220 - 3,220 mg/L 4 d (fish, Pimephales promelas) Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984 Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414
EC ₅₀ : 5,090 - 5,090 mg/L 2 d (crustaceans) Randall, T.L., and P.V. Knopp 1980. Detoxification of Specific Organic Substances by Wet Oxidation. J.Water Pollut.Control Fed. 52(8):2117-2130
EC ₅₀ : 2,029 mg/L 4 d (Algae/water plant) ECHA
NOEC: 68 mg/L 2 d (crustaceans) ECHA
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1
LC ₅₀ : 18 mg/L 4 d (fish, Pimephales promelas) OECD Prüfrichtlinie 203
EC ₅₀ : 32 - 44 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : 246 - 647.7 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Wachstumshemmung
NOEC: 105 - 196 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Wachstumshemmung
NOEC: 23.2 mg/L 21 d (crustaceans)
IC ₅₀ : 356 mg/L 2 d (Tetrahymena)
xylene CAS No.: 1330-20-7 EC No.: 215-535-7
LC ₅₀ : 3.3 - 780 mg/L 4 d (fish) Bailey, H.C., D.H.W. Liu, and H.A. Javitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C.Bahner and D.J.Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA :193-212
LC ₅₀ : 8.5 - 8.5 mg/L 2 d (crustaceans)

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 20/25

FSG-Graining Pen (various colours)

Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-66-9
LC ₅₀ : >100 mg/L 4 d (fish, Danio rerio (zebrafish))
EC ₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-67-0
LC ₅₀ : >100 mg/L 4 d (fish, Danio rerio (zebrafish))
EC ₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) EC No.: 943-145-3
EC ₅₀ : 27.39 mg/L 2 d (crustaceans)
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4
LC ₅₀ : 4.2 - 5.1 mg/L 4 d (fish)
NOEC: 3.3 mg/L 4 d (fish)
LC ₅₀ : 2.6 mg/L 4 d (crustaceans)
EC ₅₀ : 1.8 - 2.4 mg/L 2 d (crustaceans)
NOEC: 0.96 mg/L 4 d (crustaceans)
EC ₅₀ : 3.6 - 7.7 mg/L 4 d (Algae/water plant)
NOEC: 3.4 - 4.5 mg/L 4 d (Algae/water plant)
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0
LC ₅₀ : 1,250 - 1,490 mg/L 4 d (fish) GESTIS
EC ₅₀ : 1,550 - 1,800 mg/L 2 d (crustaceans) ECHA
EC ₅₀ : 623 - 1,840 mg/L 3 d (Algae/water plant) ECHA

12.2. Persistence and degradability

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6
Biodegradation: Yes, rapidly
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1
Biodegradation: Yes, rapidly
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2
Biodegradation: Yes, rapidly
Remark: Bioakkumulation potentiell möglich, Schädlich für Fische.
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9
Biodegradation: Yes, rapidly
Remark: in Water
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1
Biodegradation: Yes, rapidly
Remark: 83 % (aerob; Expositionsdauer: 28 d)(OECD Prüfrichtlinie 301D)
Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-66-9
Biodegradation: Poorly biodegradable.
Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-67-0
Biodegradation: Poorly biodegradable.

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 21/25

FSG-Graining Pen (various colours)

Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) EC No.: 943-145-3

Biodegradation: Poorly biodegradable.

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

Biodegradation: Yes, slowly

2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0

Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

Log K_{OW}: 1

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

Log K_{OW}: 1

butanone CAS No.: 78-93-3 EC No.: 201-159-0

Log K_{OW}: 0.29

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

Log K_{OW}: 2.3

Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-66-9

Log K_{OW}: 3

Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-67-0

Log K_{OW}: 3

Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) EC No.: 943-145-3

Log K_{OW}: 5

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

Log K_{OW}: 3.15

2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0

Log K_{OW}: 0.81

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6

Results of PBT and vPvB assessment: —

1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1

Results of PBT and vPvB assessment: —

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2

Results of PBT and vPvB assessment: —

2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9

Results of PBT and vPvB assessment: —

butanone CAS No.: 78-93-3 EC No.: 201-159-0

Results of PBT and vPvB assessment: —

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

Results of PBT and vPvB assessment: —

xylene CAS No.: 1330-20-7 EC No.: 215-535-7

Results of PBT and vPvB assessment: —

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 22/25

FSG-Graining Pen (various colours)

Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-66-9

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) CAS No.: 85186-67-0

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Reaction mass of Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) (1:1) and Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)] chromate(1-) EC No.: 943-145-3

Results of PBT and vPvB assessment: —

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4

Results of PBT and vPvB assessment: —

2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 03 99	Wastes not otherwise specified
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Directive 2008/98/EC (Waste Framework Directive)

HP 2	Oxidising
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Remark:

Изхвърляне съгласно Наредбата за предотвратяване и обезвреждане на отпадъци (VVEA, ehem. TVA) ШВЕЙЦАРИЯ - Код на отпадъците: 1101 - Нехалогенирани разтворители

Waste code packaging

15 01 06	mixed packaging
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Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.2. Additional information

Return to Distributor..

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1263	UN 1263	UN 1263	UN 1263
14.2. UN proper shipping name			
Paint (BUTANOLS)	Paint (BUTANOLS)	Paint (BUTANOLS)	Paint (BUTANOLS)

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 23/25

FSG-Graining Pen (various colours)

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
		MARINE POLLUTANT	
14.6. Special precautions for user			
Special Provisions: 650 Limited quantity (LQ): 5 L Hazard identification number (Kemler No.): 33 Classification code: F1 Tunnel restriction code: (D/E) Remark: -	Special Provisions: 650 Limited quantity (LQ): 5 L Classification code: F1 Remark: -	Special Provisions: 650 Limited quantity (LQ): 5 L EmS-No.: F-E, S-E	Special Provisions: 650 Limited quantity (LQ): 5 L

14.7. Maritime transport in bulk according to IMO instruments

not determined.

Additional information:

-

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P5a Flammable Liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 90.7 weight-%

15.1.2. National regulations

[GB] National regulations

Other regulations, restrictions and prohibition regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Regulation 850/2004/EC on persistent organic pollutants (POP)

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1567

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 24/25

FSG-Graining Pen (various colours)

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

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

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Germ cell mutagenicity (<i>Muta. 1B</i>)	H340: May cause genetic defects.	
Carcinogenicity (<i>Carc. 1B</i>)	H350: May cause cancer.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (central nervous system)	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1570

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

Page 25/25

FSG-Graining Pen (various colours)

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.