

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 1/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

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

1.1. Product identifier

Trade name/designation:

VOCmatic DN

Other means of identification:

Cleaner

Article No.:

RE52000

UFI:

UF0N-84FU-J005-7N4X

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

Use of the substance/mixture:

Cleaner

Relevant identified uses:

Life cycle stage [LCS]

IS: Use at industrial sites

C: Consumer use

Sector of uses [SU]

SU 18: Manufacture of furniture

Product Categories [PC]

PC 35: Washing and cleaning products

Process categories [PROC]

PROC 7: Industrial spraying

Environmental release categories [ERC]

ERC 6b: Use of reactive processing aid at industrial site (no inclusion into or onto article)

Article categories [AC]

AC 11e: Wood articles: Furniture & furnishings

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

FSG Schäfer GmbH

Boschstraße 14

48703 Stadtlohn

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.)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 2/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (Flam. Liq. 2)	H225: Highly flammable liquid and vapour.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02

Flame

Signal word: Danger

Hazard statements for physical hazards	
H225	Highly flammable liquid and vapour.

Supplemental hazard information: -

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.

Precautionary statements Response	
P370 + P378	In case of fire: Use Fire extinguishers Fire class B to extinguish.

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:

13,8 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

75,5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

57,8 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

13,8 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 3/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6	ethanol Flam. Liq. 2 Danger H225	25 - < 41.72 weight-%
CAS No.: 1119-40-0 EC No.: 214-277-2	dimethyl glutarate The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	5 - ≤ 9.75 weight-%
CAS No.: 106-65-0 EC No.: 203-419-9	dimethyl succinate The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Warning H319	2 - ≤ 3.75 weight-%
CAS No.: 627-93-0 EC No.: 211-020-6	dimethyl adipate The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2 - ≤ 3.75 weight-%
CAS No.: 78-93-3 EC No.: 201-159-0	butanone Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H336-EUH066	1 - < 1.79 weight-%
CAS No.: 5392-40-5 EC No.: 226-394-6	citral Skin Irrit. 2, Skin Sens. 1 Warning H315-H317	0 - < 0.08 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.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

IF ON SKIN: Wash with plenty of soap and water.

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

Self-protection of the first aider:

none

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

No data available

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 Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 4/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Combustible

Hazardous combustion products:

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide, Pyrolysis products, toxic, carbon black.

In case of fire: Gases/vapours, toxic

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:

Special danger of slipping by leaking/spilling product. Remove persons to safety. Keep locked up and out of reach of children.

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

Discharge into the environment must be avoided. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Soak up inert absorbent and dispose as waste requiring special attention.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

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

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:

Do not breathe gas/fumes/vapour/spray. Repeated exposure may cause skin dryness or cracking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Wear personal protection equipment (refer to section 8). Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

Fire prevent measures:

Highly flammable liquid and vapour. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

Measures to prevent aerosol and dust generation:

If possible, do not use for spraying. Wipe for cleaning

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 5/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

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 or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Packaging materials:

Material, solvent-resistant, 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/Store away from combustible materials. 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

Further information on storage conditions:

Protect from sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Recommendation:

Detergents and cleaning products (including solvent based),

Commercial use of general purpose surface cleaners. If possible, do not use for spraying.

Industrial sector specific solutions:

Basic cleaner, unlabelled, contains solvents

GISCODE:

GG20

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	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)
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)
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)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 6/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

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	citral CAS No.: 5392-40-5 EC No.: 226-394-6	① 5 ppm ⑤ (inhalable fraction and vapour)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
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
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	8.3 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	6.7 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	1.19 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	1.1 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	67 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	1.1 mg/m ³	① DNEL worker ② Acute - inhalation, local effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 7/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

Substance name	DNEL value	① DNEL type ② Exposure route
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	950 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	342 µg/l	① DNEL Consumer ② Long-term - dermal, systemic effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	12.6 mg/kg bw/day	① DNEL worker ② Acute - dermal, local effects
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	342 µg/l	① DNEL Consumer ② Long-term - oral, systemic effects
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	8.3 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local 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

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
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	32 µg/l	① PNEC aquatic, freshwater
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	3.1 µg/l	① PNEC aquatic, marine water
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	10 mg/l	① PNEC sewage treatment plant

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Page 8/14

VOCmatic DN

Substance name	PNEC Value	① PNEC type
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	150 µg/l	① PNEC sediment, freshwater
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	15 µg/l	① PNEC sediment, marine water
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	113 µg/l	① PNEC soil
dimethyl glutarate CAS No.: 1119-40-0 EC No.: 214-277-2	310 µg/l	① PNEC aquatic, intermittent release
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7	200 µg/l	① PNEC aquatic, freshwater
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7	200 µg/l	① PNEC aquatic, marine water
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7	10 mg/l	① PNEC sewage treatment plant
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7	1.183 mg/kg	① PNEC sediment, freshwater
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7	118.3 mg/kg	① PNEC sediment, marine water
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7	90 µg/l	① PNEC aquatic, intermittent release
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	1.39 mg/l	① PNEC aquatic, freshwater
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	233 µg/l	① PNEC aquatic, marine water
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	8.58 mg/kg	① PNEC sediment, freshwater
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	1.44 mg/kg	① PNEC sediment, marine water
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	899 µg/l	① PNEC soil
dimethyl succinate CAS No.: 106-65-0 EC No.: 203-419-9	500 µg/l	① PNEC aquatic, intermittent release
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	18 µg/l	① PNEC aquatic, freshwater
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	1.8 µg/l	① PNEC aquatic, marine water
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	10 mg/l	① PNEC sewage treatment plant
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	160 µg/l	① PNEC sediment, freshwater

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 9/14

VOCmatic DN

Substance name	PNEC Value	① PNEC type
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	16 µg/l	① PNEC sediment, marine water
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	90 µg/l	① PNEC soil
dimethyl adipate CAS No.: 627-93-0 EC No.: 211-020-6	180 µg/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

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 DIN EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: 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.

Respiratory protection:

Filtering device with filter or ventilator filtering device of type: AX

Thermal hazards:

Risk of explosion if heated under confinement.

Other protection measures:

Wear protective gloves/protective clothing.

8.2.3. Environmental exposure controls

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 10/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

Odour: ester

Safety relevant basis data

parameter		at °C	Method	Remark
pH	7	20 °C		
Melting point	-114 °C			
Freezing point	not determined			
Initial boiling point and boiling range	80 °C			
Decomposition temperature	not determined			
Flash point	12 °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	g/cm ³	20 °C		
Relative density	not determined			
Bulk density	not determined			
Water solubility	completely miscible			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Do not spray on an open flame or other ignition source. Highly flammable liquid and vapour.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions/ Exothermic reaction with: Acids, Light metal (Formation of: Hydrogen)

10.4. Conditions to avoid

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

10.5. Incompatible materials

Oxidizing agent

10.6. Hazardous decomposition products

Gases/vapours, toxic

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 11/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

SECTION 11: Toxicological information

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

Substance name	Toxicological information
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,

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:

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:

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

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.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
butanone CAS No.: 78-93-3 EC No.: 201-159-0	LC₅₀: 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 EC₅₀: 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 NOEC: 68 mg/l 2 d (crustaceans) ECHA EC₅₀: 2,029 mg/l 4 d (Algae/water plant) ECHA

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 12/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
butanone CAS No.: 78-93-3 EC No.: 201-159-0	Yes, rapidly	

Biodegradation:

Inherently biodegradable. bioaccumulation possible.

12.3. Bioaccumulative potential

Substance name	Log K _{ow}	Bioconcentration factor (BCF)
butanone CAS No.: 78-93-3 EC No.: 201-159-0	0.29	

Accumulation / Evaluation:

Inherently biodegradable. bioaccumulation possible.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
butanone CAS No.: 78-93-3 EC No.: 201-159-0	—

The substances in the mixture do not meet the PBT/vPvB criteria according to 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:

14 06 03 *	other solvents and solvent mixtures
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*: Evidence for disposal must be provided.

Waste code packaging:

15 01 06	mixed packaging
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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can 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., Allow the product to evaporate under a fresh air supply. Households can return chemicals to the retail trade, to the collection points or to special collectibles of the municipality or the canton, up to 10Kg per year for the end user free of charge (Switzerland). To protect the environment, do not dispose of the drain.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 13/14









FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

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 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (Ethanol)	FLAMMABLE LIQUID, N.O.S. (Ethanol)	FLAMMABLE LIQUID, N.O.S. (Ethanol)	FLAMMABLE LIQUID, N.O.S. (Ethanol)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special provisions: 640D Limited quantity (LQ): 1 L Excepted Quantities (EQ): Hazard identification number (Kemler No.): 33 Classification code: F1 tunnel restriction code: (D/E) Remark:	Special provisions: 640D Limited quantity (LQ): 1 L Excepted Quantities (EQ): Classification code: F1 Remark:	Special provisions: 640D Limited quantity (LQ): 1 L Excepted Quantities (EQ): EmS-No.: F-E Remark:	Special provisions: 640D Limited quantity (LQ): 1 L Excepted Quantities (EQ): Remark:

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Angaben zur Richtlinie 1999/13/EG über die Begrenzung von Emissionen flüchtiger organischer Verbindungen (VOC-RL)

VOC-Wert (in g/L): ISO 11890-2: 0

VOC-Wert (in g/L): ASTM D 2369: 0

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2021

Print date: 18 May 2021

Version: 0.3

Page 14/14

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



VOCmatic DN

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.

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 (Table 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 regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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

16.6. Training advice

No data available

16.7. Additional information

The information provided in this safety data sheet is correct to the best of our knowledge at the time of going to press. This information is intended to provide guidance for the safe handling, storage, processing, transport and disposal of the product mentioned in this safety data sheet. The information is not transferable to other products. If the product is mixed with other materials, mixed or processed, or subjected to processing, the data contained in this safety data sheet can not be transferred to the new material thus produced unless otherwise expressly stated otherwise.