

SAFETY DATA SHEET

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

Revision date: 8 Jun 2020

Print date: 9 Jun 2020

Version: 0.5

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FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



FSG-Spray Lacquer, transparent (silk matt, silk gloss, deep matt, matt, high gloss)

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

1.1. Product identifier

Trade name/designation:

FSG-Spray Lacquer, transparent (silk matt, silk gloss, deep matt, matt, high gloss)

Additional information:

Aerosol

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

Use of the substance/mixture:

FURNITURE, FLOOR & LEATHER CARE for consumer use

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

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.)

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
Reproductive toxicity (<i>Repr. 1B</i>)	H360D: May damage the unborn child.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	

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2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS08

Health hazard

Signal word: Danger

hazard statements for health hazards

H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.

Supplemental hazard information: -

Precautionary Statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Special rules for supplemental label elements for certain mixtures:

35,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

35,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

35,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

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.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 67-64-1 EC No.: 200-662-2 REACH No.: 01-2119471330-49	Acetone Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H336-EUH066	16 - ≤ 28 Vol-%
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	9 - ≤ 15 Vol-%
CAS No.: 108-10-1 EC No.: 203-550-1 REACH No.: 01-2119473980-30	4-methylpentan-2-one Acute Tox. 4, Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H332-H335-EUH066	6 - ≤ 10 Vol-%

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product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 123-86-4 EC No.: 204-658-1 REACH No.: 01-2119485493-29-0007	n-butyl acetate Flam. Liq. 3, STOT SE 3 Warning H226-H336-EUH066	3 - ≤ 5 Vol-%
CAS No.: 111-76-2 EC No.: 203-905-0 REACH No.: 01-2119475108-36	2-butoxyethanol Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2 Warning H302-H312-H315-H319-H332	3 - ≤ 5 Vol-%
CAS No.: 64742-82-1 EC No.: 927-241-2 REACH No.: 01-2119471843-32-0000	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics Aquatic Chronic 3, Asp. Tox. 1, Flam. Liq. 3, STOT SE 3 Danger H226-H304-H336-H412-EUH066	0 - ≤ 1 Vol-%
CAS No.: 70657-70-4 EC No.: 274-724-2	2-methoxypropyl acetate Flam. Liq. 3, Repr. 1B, STOT SE 3 Danger H226-H335-H360D	0 - ≤ 1 Vol-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. 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 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. Get medical advice/attention if you feel unwell.

In case of skin contact:

Not an irritant. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

After ingestion:

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

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

Serious eye damage/eye irritation Drowsiness 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

5.2. Special hazards arising from the substance or mixture

Fire class R12 Combustible

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Hazardous combustion products:

In case of fire: Gases/vapours, toxic.

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

5.3. Advice for firefighters

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

5.4. Additional information

Discharge into the environment must be avoided. 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.

6.3. Methods and material for containment and cleaning up

For containment:

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

For cleaning up:

Clean with detergents. Avoid solvent cleaners.

Other information:

Provide adequate ventilation.

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). Avoid contact during pregnancy/while nursing. Special danger of slipping by leaking/spilling product.

Fire prevent measures:

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

Environmental precautions:

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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.

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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:

Keep only in the original container in a cool, well-ventilated place away from acids.

Requirements for storage rooms and vessels:

AEROSOLS, flammable

Hints on storage assembly:

Do not store together with: Strong acid, Base

Storage class: 2A - Gases (except aerosol dispensers and lighters)

Further information on storage conditions:

Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

Industrial sector specific solutions:

Solvent-based varnishes/wood glazes, aromatics removed

GISCODE:

M-KH02

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	Acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
IOELV (EU)	Acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
WEL (GB)	Acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 1,500 ppm (3,620 mg/m ³)
IE	butane CAS No.: 106-97-8	① 1,000 ppm
WEL (GB)	butane CAS No.: 106-97-8	① 600 ppm (1,450 mg/m ³) ② 750 ppm (1,810 mg/m ³)
IE	propane CAS No.: 74-98-6	① 1,000 ppm
IE	butanone CAS No.: 78-93-3	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	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
WEL (GB)	butanone CAS No.: 78-93-3	① 200 ppm (600 mg/m ³) ② 300 ppm (899 mg/m ³)
IE	4-methylpentan-2-one CAS No.: 108-10-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (may be absorbed through the skin)
IOELV (EU)	4-methylpentan-2-one CAS No.: 108-10-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)

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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)	4-methylpentan-2-one CAS No.: 108-10-1	① 50 ppm (208 mg/m ³) ② 100 ppm (416 mg/m ³) ⑤ (may be absorbed through the skin)
IE	isobutane CAS No.: 75-28-5	② 1,000 ppm
IE	n-butyl acetate CAS No.: 123-86-4	① 150 ppm (710 mg/m ³) ② 200 ppm (950 mg/m ³)
MEL/OES (GB)	n-butyl acetate CAS No.: 123-86-4	① 150 ppm (724 mg/m ³) ② 200 ppm (966 mg/m ³)
IOELV (EU)	n-butyl acetate CAS No.: 123-86-4	① 50 ppm (241 mg/m ³) ② 150 ppm (723 mg/m ³)
WEL (GB)	2-butoxyethanol CAS No.: 111-76-2	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	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)
IOELV (EU)	2-butoxyethanol CAS No.: 111-76-2	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics CAS No.: 64742-82-1	① 500 mg/m ³ ⑤ (Aromatics)

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)	4-methylpentan-2-one CAS No.: 108-10-1	20 µmol/L	① 4-methylpentan - 2-one ② urine ③ end of exposure or end of shift
BMGV (GB)	2-butoxyethanol CAS No.: 111-76-2	240 mmol/mol creatinine	① Butoxyacetic acid ② urine ③ end of exposure or end of shift

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Acetone CAS No.: 67-64-1	1,210 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Acetone CAS No.: 67-64-1	200 mg/m ³	① DNEL Consumer ② inhalative, long-term, systemic
Acetone CAS No.: 67-64-1	2,420 mg/m ³	① DNEL worker ② inhalative, short-term, systemic, (acute)
Acetone CAS No.: 67-64-1	186 mg/kg	① DNEL worker ② dermal, long-term, systemic
Acetone CAS No.: 67-64-1	62 mg/kg	① DNEL Consumer ② dermal, long-term, systemic
Acetone CAS No.: 67-64-1	62 mg/kg	① DNEL Consumer ② oral, long-term, systemic
butanone CAS No.: 78-93-3	600 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
butanone CAS No.: 78-93-3	106 mg/m ³	① DNEL Consumer ② inhalative, long-term, systemic
butanone CAS No.: 78-93-3	1,161 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
butanone CAS No.: 78-93-3	412 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic
butanone CAS No.: 78-93-3	31 mg/kg bw/day	① DNEL worker ② oral, long-term, systemic
4-methylpentan-2-one CAS No.: 108-10-1	83 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
4-methylpentan-2-one CAS No.: 108-10-1	14.7 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
4-methylpentan-2-one CAS No.: 108-10-1	208 mg/m ³	① DNEL worker ② inhalative, short-term, systemic, (acute)
4-methylpentan-2-one CAS No.: 108-10-1	11.8 mg/kg	① DNEL worker ② dermal, long-term, systemic
4-methylpentan-2-one CAS No.: 108-10-1	4.2 mg/kg	① DNEL worker ② dermal, long-term, systemic
4-methylpentan-2-one CAS No.: 108-10-1	4.2 mg/m ³	① DNEL worker ② oral, long-term, systemic
n-butyl acetate CAS No.: 123-86-4	102.34 mg/ m ³	① DNEL Consumer ② inhalative, long-term, systemic
n-butyl acetate CAS No.: 123-86-4	960 mg/m ³	① DNEL worker ② inhalative, short-term, systemic, (acute)
n-butyl acetate CAS No.: 123-86-4	859.7 mg/m ³	① DNEL Consumer ② inhalative, short-term, systemic, (acute)
n-butyl acetate CAS No.: 123-86-4	480 mg/m ³	① DNEL worker ② inhalative, long-term, local

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Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C9-C10, containing n-alkanes, iso alkanes, cyclics, with <2% aromatics CAS No.: 64742-82-1	900 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Hydrocarbons, C9-C10, containing n-alkanes, iso alkanes, cyclics, with <2% aromatics CAS No.: 64742-82-1	300 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Hydrocarbons, C9-C10, containing n-alkanes, iso alkanes, cyclics, with <2% aromatics CAS No.: 64742-82-1	1,500 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic
Hydrocarbons, C9-C10, containing n-alkanes, iso alkanes, cyclics, with <2% aromatics CAS No.: 64742-82-1	300 mg/kg bw/day	① DNEL worker ② oral, long-term, systemic

Substance name	PNEC Value	① PNEC type
Acetone CAS No.: 67-64-1	10.6 mg/l	① PNEC aquatic, freshwater
Acetone CAS No.: 67-64-1	1.06 mg/l	① PNEC aquatic, marine water
Acetone CAS No.: 67-64-1	100 mg/l	① PNEC sewage treatment plant
Acetone CAS No.: 67-64-1	30.4 mg/kg	① PNEC sediment, freshwater
Acetone CAS No.: 67-64-1	3.04 mg/kg	① PNEC sediment, marine water
Acetone CAS No.: 67-64-1	21 mg/l	① PNEC aquatic, intermittent release
Acetone CAS No.: 67-64-1	29.5 mg/kg	① PNEC soil, freshwater
butanone CAS No.: 78-93-3	55.8 mg/l	① PNEC aquatic, freshwater
butanone CAS No.: 78-93-3	55.8 mg/l	① PNEC aquatic, marine water
butanone CAS No.: 78-93-3	709 mg/l	① PNEC sewage treatment plant
butanone CAS No.: 78-93-3	284.74 mg/ kg	① PNEC sediment, freshwater
butanone CAS No.: 78-93-3	284.7 mg/kg	① PNEC sediment, marine water
butanone CAS No.: 78-93-3	1 g/kg	① PNEC secondary poisoning
butanone CAS No.: 78-93-3	55.8 mg/l	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3	22.5 mg/kg	① PNEC soil, freshwater
n-butyl acetate CAS No.: 123-86-4	0.18 mg/l	① PNEC aquatic, freshwater
n-butyl acetate CAS No.: 123-86-4	0.018 mg/l	① PNEC aquatic, marine water
n-butyl acetate CAS No.: 123-86-4	35.6 mg/l	① PNEC sewage treatment plant
n-butyl acetate CAS No.: 123-86-4	0.981 mg/l	① PNEC sediment, freshwater
n-butyl acetate CAS No.: 123-86-4	0.0981 mg/l	① PNEC sediment, marine water
n-butyl acetate CAS No.: 123-86-4	0.36 mg/l	① PNEC aquatic, intermittent release

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Substance name	PNEC Value	① PNEC type
n-butyl acetate CAS No.: 123-86-4	0.0903 mg/l	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. generation/formation of aerosols: Technical ventilation of workplace

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

In full contact: Suitable material: Butyl caoutchouc (butyl rubber) >0,7 mm, Breakthrough time (maximum wearing time) >480 min. In splash contact: Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber) >0,4 mm, Breakthrough time (maximum wearing time) >120 min.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Thermal hazards:

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

Other protection measures:

Wear suitable protective clothing.

8.2.3. Environmental exposure controls

no restriction

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: by respective labeling.

Odour: Alcohol

Safety relevant basis data

parameter		at °C	Method	Remark
pH	not determined			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
Flash point	not applicable			
Evaporation rate	not applicable			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	4,200 hPa			
Vapour density	not determined			
Density	not determined			
Bulk density	not determined			

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parameter		at °C	Method	Remark
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		
Trocknerextrakt [%]	12 - 15 %			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Combustible, Highly flammable

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidizing agent

10.4. Conditions to avoid

Strong acid, Base

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Gases/vapours, toxic. In case of warming: Flammable solvent vapor mixtures are possible. Contains gas under pressure; may explode if heated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
67-64-1	Acetone	LD₅₀ oral: 5,800 mg/kg (Rat) Journal of Toxicology and Environmental Health. Vol. 15, Pg. 609, 1985. LC₅₀ Acute inhalation toxicity (vapour): 50.1 mg/l (Rat) Am Ind Hyg Assoc J 20: 364-369 LD₅₀ dermal: >7,426 mg/kg (Rabbit)
78-93-3	butanone	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,
108-10-1	4-methylpentan-2-one	LD₅₀ oral: >2,000 - ≤5,000 mg/kg (Rat) MSDS Distributor LD₅₀ dermal: >5,000 mg/kg (Rabbit) MSDS Distributor LC₅₀ Acute inhalation toxicity (vapour): >10 - ≤20 mg/l 4 h (Rat)

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CAS No.	Substance name	Toxicological information
123-86-4	n-butyl acetate	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
111-76-2	2-butoxyethanol	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
64742-82-1	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics	LD₅₀ oral: >5,000 mg/kg (Rat) MSDS Distributor LD₅₀ dermal: >5,000 mg/kg (Rabbit) MSDS Distributor LC₅₀ Acute inhalation toxicity (dust/mist): >4.951 mg/l (Rat) MSDS Distributor

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:

Causes serious eye irritation.

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:

May damage the unborn child. Based on available data, the classification criteria are not met.

STOT-single exposure:

May cause drowsiness or dizziness.

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

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SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
67-64-1	Acetone	<p>LC₅₀: 4,350 - 11,000 mg/l 4 d (fish, <i>Pimephales promelas</i> (fathead minnow)) OECD Guideline 203 (Fish, Acute Toxicity Test)</p> <p>LC₅₀: 10 - 30,600 mg/l 2 d (crustaceans, <i>Daphnia pulex</i> (water flea)) Cowgill, U.M., and D.P. Milazzo 1991. The Sensitivity of <i>Ceriodaphnia dubia</i> and <i>Daphnia magna</i> to Seven Chemicals Utilizing the Three-Brood Test. Arch. Environ. Contam. Toxicol. 20(2):211-217; Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with <i>Daphnia magna</i> and Comparison of the Sensitivity of <i>Daphnia magna</i> with <i>Daphnia pulex</i> and <i>Daphnia cucullata</i> in Short-Term Experiments. Hydrobiologia 59(2):135-140 (Used Reference 2018)</p> <p>EC₅₀: 13,500 - 23,500 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; Barera, Y., and W.J. Adams 1983. Resolving Some Practical Questions About <i>Daphnia</i> Acute Toxicity Tests. In: W.E. Bishop (Ed.), Aquatic Toxicology and Hazard Assessment, 6th Symposium, ASTM STP 802, Philadelphia, PA :509-518</p> <p>EC₅₀: 7,200 - 7,200 mg/l 4 d (Algae/water plant, <i>Microcystis aeruginosa</i>) Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. Natl. Tech. Inf. Serv., Springfield, VA :25 p. (DUT) (ENG ABS) (NTIS/PB83-200386)</p>
78-93-3	butanone	<p>LC₅₀: 3,220 - 3,220 mg/l 4 d (fish, <i>Pimephales promelas</i>) Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (<i>Pimephales promelas</i>), Vol. 1. Center for Lake Superior Environmental Stud., Univ. of Wisconsin-Superior, Superior, WI :414</p> <p>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</p> <p>NOEC: 68 mg/l 2 d (crustaceans) ECHA</p> <p>EC₅₀: 2,029 mg/l 4 d (Algae/water plant) ECHA</p>
108-10-1	4-methylpentan-2-one	<p>LC₅₀: >100 mg/l (fish) MSDS Distributor</p> <p>EC₅₀: >100 mg/l (fish) MSDS Distributor</p> <p>IC₅₀: >100 mg/l (fish) MSDS Distributor</p> <p>LC₅₀: >100 mg/l (crustaceans) MSDS Distributor</p> <p>EC₅₀: >100 mg/l (crustaceans) MSDS Distributor</p> <p>IC₅₀: >100 mg/l (crustaceans) MSDS Distributor</p> <p>LC₅₀: ≤100 mg/l (Algae/water plant) MSDS Distributor</p> <p>EC₅₀: ≤100 mg/l (Algae/water plant) MSDS Distributor</p> <p>IC₅₀: ≤100 mg/l (Algae/water plant) MSDS Distributor</p>

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CAS No.	Substance name	Toxicological information
123-86-4	n-butyl acetate	LC₅₀ : 18 mg/l 4 d (fish, Pimephales promelas) OECD Prüfrichtlinie 203 EC₅₀ : 44 mg/l 2 d (crustaceans, Daphnia magna) EC₅₀ : 647.7 mg/l 3 d (Algae/water plant, Desmo desmus subspicatus) Wachstumshemmung NOEC : 200 mg/l (Algae/water plant, Desmodesm us subspicatus) Wachstumshemmung IC₅₀ : 356 mg/l 2 d (Tetrahymena)
111-76-2	2-butoxyethanol	LC₅₀ : 1,250 - 1,490 mg/l 4 d (fish) GESTIS LC₅₀ : 800 - 800 mg/l 2 d (crustaceans) GESTIS
64742-82-1	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics	LC₅₀ : 10 - ≤100 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) MSDS Distributor LC₅₀ : 10 - ≤100 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) MSDS Distributor LC₅₀ : >100 mg/l (Algae/water plant) MSDS Distributor LC₅₀ : >1,000 mg/l (Mikroorganismen) MSDS Distributor NOEC : <1 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) NOELR SDB BR EC₅₀ : >1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EL 50 SDB BR EC₅₀ : >22 - <46 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) EL 50 SDB BR LC₅₀ : >10 - <30 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

Effects in sewage plants:

The insoluble part can be precipitated mechanically in suitable sewage treatment plants.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
67-64-1	Acetone	Yes, rapidly	
78-93-3	butanone	Yes, rapidly	
108-10-1	4-methylpentan-2-one	Yes, rapidly	
123-86-4	n-butyl acetate	Yes, rapidly	83 % (aerob; Expositionsdauer: 28 d) (OECD Prüfrichtlinie 301D)
64742-82-1	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics	Yes, rapidly	Bioakkumulation potentiell möglich, Schädlich für Fische.

Biodegradation:

Inherently biodegradable. bioaccumulation possible.

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OW}	Bioconcentration factor (BCF)
67-64-1	Acetone	-0.24	3
78-93-3	butanone	0.29	
108-10-1	4-methylpentan-2-one	1.31	
123-86-4	n-butyl acetate	2.3	
111-76-2	2-butoxyethanol	0.8	

Accumulation / Evaluation:

Inherently biodegradable. bioaccumulation possible.

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
67-64-1	Acetone	—
78-93-3	butanone	—
108-10-1	4-methylpentan-2-one	—
123-86-4	n-butyl acetate	—
111-76-2	2-butoxyethanol	—
64742-82-1	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics	—
70657-70-4	2-methoxypropyl acetate	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. 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:

08 01 11 *	Waste paint and varnish containing organic solvents or other dangerous substances
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*: Evidence for disposal must be provided.

Waste code packaging:

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
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*: Evidence for disposal must be provided.

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.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS flammable aerosols (Aerosols , n-Butyl acetate)	AEROSOLS flammable aerosols (Aerosols , n-Butyl acetate)	AEROSOLS (Aerosols , n-Butyl acetate)	AEROSOLS (Aerosols , n-Butyl acetate)

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
 2.2	 2.2	 2.2	 2.2
14.4. Packing group			
No data available			
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): Hazard identification number (Kemler No.): 33 Classification code: 5F tunnel restriction code: (D) Remark: -	Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): Classification code: 5F Remark:	Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): EmS-No.: Remark:	Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): Remark:

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
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. According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented. Aerosol directive (75/324/EEC)

Other regulations (EU):

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L): 625 -640 g/l (85 % - 88 %)

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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

3.2. Mixtures

8.2. Exposure controls

10.6. Hazardous decomposition products

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 regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Reproductive toxicity (<i>Repr. 1B</i>)	H360D: May damage the unborn child.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	

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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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16.6. Training advice

No data available

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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.