

# 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: 0.2

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## FSG-Refrigerant, Type KM 1 PLUS

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

#### 1.1. Product identifier

Trade name/designation:

FSG-Refrigerant, Type KM 1 PLUS

Article No.:

KM35000

UFI:

CWW3-X3N7-P005-W6T5

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

Use of the substance/mixture:

Refrigerant

Relevant identified uses:

Sector of uses [SU]

SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites

Product Categories [PC]

PC 16: Heat transfer fluids

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

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](mailto:verkauf@fsg-schaefer.de)

Website: [www.fsg-schaefer.de](http://www.fsg-schaefer.de)

E-mail (competent person): [sdb@fsg-schaefer.de](mailto: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. 2</i> )	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	

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## FSG-Refrigerant, Type KM 1 PLUS

### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark

Signal word: Danger

#### Hazard statements for physical hazards

H225	Highly flammable liquid and vapour.
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#### Hazard statements for health hazards

H319	Causes serious eye irritation.
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Supplemental hazard information: none

#### Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face 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.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Special rules for supplemental label elements for certain mixtures:

85,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

18,4 % 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 GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5	ethanol Flam. Liq. 2 (H225) <b>Danger</b>	48 - < 100 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) <b>Danger</b>	7 - ≤ 14 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) <b>Danger</b> EUH066	1 - < 3 weight-%

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

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## FSG-Refrigerant, Type KM 1 PLUS

### 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: Gently wash with plenty of soap and water. 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:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### 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.

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

Serious eye damage/eye irritation.

#### 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 (CO<sub>2</sub>).  
Fire extinguishers Fire class B.

##### Unsuitable extinguishing media:

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Highly flammable, Combustible.

##### Hazardous combustion products:

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), 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:

Remove persons to safety.

##### Protective equipment:

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

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### 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:

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/bond container and receiving equipment. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Wear personal protection equipment (refer to section 8).

#### Fire prevent measures:

Highly flammable, 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

#### 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.

#### 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 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

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### Further information on storage conditions:

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

### 7.3. Specific end use(s)

#### Recommendation:

Washing and cleaning products, Professional use of general surface cleaning products, If possible, do not use for spraying.

#### Industrial sector specific solutions:

Anti-corrosive paints, containing solvents, aromatics removed

#### GISCODE:

BS40

## 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 <sup>3</sup> )
IE	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm ② 400 ppm ⑤ (may be absorbed through the skin) Sk
WEL (GB)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 400 ppm (999 mg/m <sup>3</sup> ) ② 500 ppm (1,250 mg/m <sup>3</sup> )
IE	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m <sup>3</sup> ) ② 300 ppm (900 mg/m <sup>3</sup> ) 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 <sup>3</sup> ) ② 300 ppm (900 mg/m <sup>3</sup> )
WEL (GB)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m <sup>3</sup> ) ② 300 ppm (899 mg/m <sup>3</sup> )

#### 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 <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	114 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	1,900 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m <sup>3</sup>	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
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg	① DNEL worker ② Long-term - dermal, local effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m <sup>3</sup>	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

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Substance name	PNEC Value	① PNEC type
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.63 mg/kg	① PNEC soil, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil, freshwater
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. generation/formation of aerosols: Technical ventilation of workplace.

### 8.2.2. Personal protection equipment



#### Eye/face protection:

Eye glasses with side protection EN 166.

#### Skin protection:

In full contact: Suitable material: Butyl caoutchouc (butyl rubber) >0,7 mm. Breakthrough time: >480 min.

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

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Tested protective gloves must be worn EN ISO 374.

The following gloves may be used: Ultranitril 492, MAPA Professionnel & Nitril/Neopren Microflex 93-260 (EN374 (JKL), EN388 (2000); Kat.III; AQL 0,65).

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:

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

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

### Thermal hazards:

Risk of explosion if heated under confinement.

### Other protection measures:

Wear suitable protective clothing.

### 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: blue

Odour: Ethanol

#### Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	7	
Melting point	<i>not determined</i>	
Freezing point	<i>not determined</i>	
Initial boiling point and boiling range	78 - 137 °C	
Decomposition temperature	<i>not determined</i>	
Flash point	12 °C	
Evaporation rate	<i>not determined</i>	
Auto-ignition temperature	<i>not determined</i>	
Upper/lower flammability or explosive limits	<i>not determined</i>	
Vapour pressure	<i>not determined</i>	
Vapour density	<i>not determined</i>	
Density	<i>not determined</i>	
Relative density	<i>not determined</i>	
Bulk density	<i>not determined</i>	
Water solubility	miscible	
Partition coefficient: n-octanol/water	<i>not determined</i>	
Dynamic viscosity	<i>not determined</i>	
Kinematic viscosity	<i>not determined</i>	

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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## FSG-Refrigerant, Type KM 1 PLUS

### 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.

### 10.6. Hazardous decomposition products

In case of warming: Flammable solvent vapor mixtures are possible.  
Gases/vapours, toxic.

## SECTION 11: Toxicological information

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

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
<b>LD<sub>50</sub> oral:</b> 5,050 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> 12,800 mg/m <sup>3</sup> (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >25,000 mg/kg 6 h (Rat)
<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
<b>LD<sub>50</sub> oral:</b> 2,740 mg/kg (Rat) Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971.
<b>LD<sub>50</sub> dermal:</b> 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:

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:

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

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## FSG-Refrigerant, Type KM 1 PLUS

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
LC <sub>50</sub> : 9,640 mg/L 4 d (fish, Pimephales promelas (fathead minnow))
LC <sub>50</sub> : 9,714 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
NOEC: 250 mg/L 4 d (Algae/water plant, Tetrahymena thermophila)
NOEC: 754 mg/L 2 d (Algae/water plant)
<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
LC <sub>50</sub> : 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 <sub>50</sub> : 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 <sub>50</sub> : 2,029 mg/L 4 d (Algae/water plant) ECHA
NOEC: 68 mg/L 2 d (crustaceans) ECHA

#### 12.2. Persistence and degradability

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
Biodegradation: Yes, rapidly
Remark: Empfohlener Wert der LOG KOW Datenbank
<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly

#### 12.3. Bioaccumulative potential

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
Log K <sub>ow</sub> : 0.05
<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
Log K <sub>ow</sub> : 0.29

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
Results of PBT and vPvB assessment: —

#### 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

Dispose according to legislation.

##### 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.

#### Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
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# 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



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## FSG-Refrigerant, Type KM 1 PLUS

### Waste code packaging

15 01 02 Plastic packaging

### 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. Collect in closed and suitable containers for disposal.

### 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)
<b>14.1. UN number or ID number</b>			
UN 1993	UN 1993	UN 1993	UN 1993
<b>14.2. UN proper shipping name</b>			
FLAMMABLE LIQUID, N.O.S. (Ethanol, Isopropyl alcohol)	FLAMMABLE LIQUID, N.O.S. (Ethanol, Isopropyl alcohol)	FLAMMABLE LIQUID, N.O.S. (Ethanol, Isopropyl alcohol)	FLAMMABLE LIQUID, N.O.S. (Ethanol, Isopropyl alcohol)
<b>14.3. Transport hazard class(es)</b>			
 3	 3	 3	 3
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 640D <b>Limited quantity (LQ):</b> 1 L <b>Hazard identification number (Kemler No.):</b> 33 <b>Classification code:</b> F1 <b>Tunnel restriction code:</b> (D/E) <b>Remark:</b> -	<b>Special Provisions:</b> 640D <b>Limited quantity (LQ):</b> 1 L <b>Classification code:</b> F1 <b>Remark:</b> -	<b>Special Provisions:</b> 640D <b>Limited quantity (LQ):</b> 1 L <b>EmS-No.:</b> F-E, S-E	<b>Special Provisions:</b> 640D <b>Limited quantity (LQ):</b> 1 L

### 14.7. Maritime transport in bulk according to IMO instruments

not determined

#### Additional information:

-

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## FSG-Refrigerant, Type KM 1 PLUS

### 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.

###### 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: 96.7 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

For this substance a chemical safety assessment has not been 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 (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. 2</i> )	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### 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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## FSG-Refrigerant, Type KM 1 PLUS

### 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.