

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** DUSTER-FL

**Product code:** 732.400.000

**Synonyms:** AEROSOL

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

**Use of substance / mixture:** Aerosol

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

**Company name:** ECS AG

Roosstrasse 53

CH-8832 Wollerau

Switzerland

**Tel:** +41 (0)44 / 787 53 56

**Email:** gunnar.kleinmann@ecsag.com

**1.4. Emergency telephone number**

**Emergency tel:** Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** \* Flam. Aerosol 1: H222; -: H229

**Most important adverse effects:** Extremely flammable aerosol. Pressurised container: May burst if heated.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

**Hazard pictograms:** GHS02: Flame



**Signal words:** Danger

**Precautionary statements:** P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

### 2.3. Other hazards

**Other hazards:** In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

##### BUTANE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-448-7	106-97-8	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	65.000%

##### PROPANE

200-827-9	74-98-6	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	30.000%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Exposure route not applicable.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

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

**Eye contact:** Based on available data, the classification criteria are not met.

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

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

**Delayed / immediate effects:** Based on available data, the classification criteria are not met.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Treat symptomatically.

## Section 5: Fire-fighting measures

[cont...]

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## 5.1. Extinguishing media

**Extinguishing media:** Carbon dioxide. Dry chemical powder. Foam Extinguishing powder. Unsuitable extinguishing media  
Water.

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

**Exposure hazards:** Flammable. Forms explosive air-vapour mixture.

## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Additional information:  
Use water spray/stream to protect personnel and to cool endangered containers.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Eliminate all sources of ignition.

### 6.2. Environmental precautions

**Environmental precautions:** Do not allow uncontrolled discharge of product into the environment. Danger of explosion.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Refer to section 13 of SDS for suitable method of disposal.

### 6.4. Reference to other sections

**Reference to other sections:** Safe handling: see section 7 Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Advice on safe handling  
Do not pierce or burn, even after use. Advice on protection against fire and explosion  
Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep away from sources of ignition.  
Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Further information on handling  
Heating causes rise in pressure with risk of bursting.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Advice on storage compatibility: Oxidising agent. Pyrophonic or self-heating substances.

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## 7.3. Specific end use(s)

Specific end use(s): Aerosol

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Hazardous ingredients:

**BUTANE**

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1450 mg/m <sup>3</sup>	1810 mg/m <sup>3</sup>	-	-

**PROPANE**

UK	1800 mg/m <sup>3</sup>	7200 mg/m <sup>3</sup>	-	-
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### DNEL/PNEC Values

DNEL / PNEC No data available.

### 8.2. Exposure controls

**Engineering measures:** Take off contaminated clothing. Wash hands before breaks and after works. When using do not eat or drink

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Not applicable.

**Eye protection:** Safety glasses with side-shields.

**Skin protection:** Wear anti-static footwear and clothing.

**Environmental:** The floor of the storage room must be impermeable to prevent the escape of liquids.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless

**Odour:** Odourless

**Evaporation rate:** No data available.

**Solubility in water:** Insoluble

**Viscosity:** No data available.

**Boiling point/range°C:** < -20°C

**Flammability limits %: lower:** 1,8 Vol %

**Flash point°C:** < -20°C

**Vapour pressure:** not determined.

**pH:** not applicable.

**Melting point/range°C:** not applicable.

**upper:** 8,4 Vol %

**Autoflammability°C:** not applicable.

**Relative density:** at 20 °C: 0,56 g/cm

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## 9.2. Other information

**Other information:** In use, may form flammable/explosive vapour-air mixture.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Flammable, Ignition hazard.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

**Conditions to avoid:** Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

### 10.5. Incompatible materials

**Materials to avoid:** No data available.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** No dangerous decomposition products known.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Skin corrosion/irritation	-	No hazard: calculated
Serious eye damage/irritation	-	No hazard: calculated
Respiratory/skin sensitisation	-	No hazard: calculated
Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated
STOT-single exposure	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated
Aspiration hazard	-	No hazard: calculated

[cont...]

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## Symptoms / routes of exposure

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

**Eye contact:** Based on available data, the classification criteria are not met.

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

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

**Delayed / immediate effects:** Based on available data, the classification criteria are not met.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

### 12.4. Mobility in soil

**Mobility:** No data available.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** No information available. Further information:

Avoid release to the environment.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Recovery operations:** Completely emptied packages can be recycled.

**Waste code number:** 16 05 04

**Disposal of packaging:** Completely emptied packages can be recycled.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN1950

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## 14.2. UN proper shipping name

**Shipping name:** Aerosols  
(AEROSOLS, FLAMMABLE)

## 14.3. Transport hazard class(es)

**Transport class:** 2.1 (5f)

## 14.4. Packing group

**Packing group:** -

## 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

## 14.6. Special precautions for user

**Special precautions:** Warning: Flammable gases EMS Number: F-D,S-U

**Tunnel code:** D

**Transport category:** 2

**IMDG seg. group:** LQ: 1L; EQ: E0

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk:** not applicable

## Section 15: Regulatory information

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

**Specific regulations:** EU regulatory information:

2010/75/EU (VOC): 100% (560 g/l)

2004/42/EC (VOC): 100% (560g/l) Additional information:

to follow: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H220: Extremely flammable gas.

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H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



