

**Safety Data Sheet according to Regulation (EU) No. 1907/2006**

AESFULAP AG

Revision date : 09.04.2009

Revision no. : 1,02

**AESFULAP STERILIT POWER SYSTEMS OILSPRAY**

00250-0019

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**1. Identification of the substance/preparation and of the company/undertaking**

**Identification of the substance or preparation**

AESFULAP STERILIT POWER SYSTEMS OILSPRAY

**Art.-No.**

GB 600

**Use of the substance/preparation**

Preservative agent

**Company/undertaking identification**

AESFULAP AG

Am AESFULAP-Platz

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Telephone ++49 (0) 74 61 95-0

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Contact person

Inquiry office

Responsible for the safety data sheet: sds@gbk-ingelheim.de

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**2. Hazards identification**

**Classification**

Indications of danger : Extremely flammable

R-phrases :

Extremely flammable.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**3. Composition/information on ingredients**

**Chemical characterization** ( Mixture )

Aerosol with preparation of special oil and pentane

Volume: 300 ml

Propellant: propane/butan < 150 g

**Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-827-9	74-98-6	Propane	40 - 45 %	F+ R12
203-448-7	106-97-8	Butane	40 - 45 %	F+ R12
203-692-4	109-66-0	Pentane	10 %	F+, Xn, N R12-65-66-67-51-53

Full text of each relevant R phrase can be found in heading 16.

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**4. First aid measures**

**General information**

Remove contaminated soaked clothing immediately.

Take away from danger area and lay down affected person.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

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**After contact with skin**

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

**After ingestion**

Do not induce vomiting.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

Attention. Beware, danger of aspiration.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

**Extinguishing media which must not be used for safety reasons**

Full water jet

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

Fire may produce:

Carbon monoxide and carbon dioxide.

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Protective suit

**Additional information**

Cool containers at risk with water spray jet. Heating will cause pressure rise with risk of bursting.

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**6. Accidental release measures**

**Personal precautions**

Ensure adequate ventilation.

Use only explosion-proof equipment.

Remove all sources of ignition.

Avoid contact with skin, eyes and clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

**Methods for cleaning up/taking up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

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**7. Handling and storage**

**Handling**

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**Advice on safe handling**

Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing.

Do not breathe aerosol

**Advice on protection against fire and explosion**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Without adequate ventilation formation of explosive mixtures may be possible.

**Storage****Requirements for storage rooms and vessels**

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

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**Storageclass (VCI)**

2 B

**8. Exposure controls/personal protection****Exposure limit values****Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
	Butane	750	1810		STEL (15 min)	WEL
109-66-0	Pentane	600	1800		TWA (8 h)	WEL
	Pentane	-	-		STEL (15 min)	WEL

**Exposure controls****Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not breathe aerosol

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with eyes and skin.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX).

**Hand protection**

Splash protection:

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 120 minutes, i.e. protective glove &lt;Camatril Velours 730&gt; made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

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**Eye protection**

Safety goggles with side protection

**Skin protection**

Long sleeved clothing.

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**9. Physical and chemical properties**

**General information**

Physical state	Aerosol
Colour	White
Odour	Hydrocarbon-like

**Important health, safety and environmental information**

Test method

**Changes in the physical state**

Flash point	n.a.
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**Flammability**

Lower explosion limits	n.d.
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Ignition temperature	n.d.
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Vapour pressure : at (20 °C)	3500 hPa
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Density (at 20 °C) :	0,575 g/cm <sup>3</sup>
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Water solubility : at (20 °C)	Immiscible
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**10. Stability and reactivity**

**Conditions to avoid**

Fire or intense heat may cause violent ruptur of packages.

**Materials to avoid**

Strong oxidizing agents.

**Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**Additional information**

No decomposition if stored and applied as directed.

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**11. Toxicological information**

**Empirical data on effects on humans**

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Inhalation of vapours in high concentration can cause narcotic effects.

Rapid evaporation of the liquid may cause frostbite.

May cause eye/skin irritation.

May cause irritation of the mucous membranes.

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**12. Ecological information**

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#### Further information

Do not flush into surface water or sanitary sewer system.

Hazard to waters

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecological injuries are not known or expected under normal use.

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### **13. Disposal considerations**

#### **Advice on disposal**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

#### **Waste disposal number of waste from residues/unused products**

150111 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers  
Classified as hazardous waste.

#### **Contaminated packaging**

Offer empty spray cans to an established disposal company.

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### **14. Transport information**

#### **Land transport (ADR/RID)**

ADR/RID class	2
Classification code :	5F
Hazard-no.	
UN number	1950
Hazard label	2.1
ADR/RID packing group	-
Limited quantity :	LQ 2

#### **Description of the goods**

AEROSOLS

#### **Other applicable information (land transport)**

LQ 2: combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Tunnel restriction code: D

Transport category: 2

#### **Inland waterways transport**

#### **Marine transport**

IMDG code	2
UN number	1950
Marine pollutant	No
EmS	F-D; S-U
Limited quantity :	1 L / 30 kg
IMDG packing group	-
Hazard label	2.1

#### **Description of the goods**

AEROSOLS

#### **Other applicable information (marine transport)**

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Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass)

**Air transport**

ICAO/IATA-DGR	2.1
UN/ID number	1950
Hazard label	2.1
IATA-packing instructions - Passenger	203
IATA-max. quantity - Passenger	75 kg
IATA-packing instructions - Cargo	203
IATA-max. quantity - Cargo	150 kg
ICAO packing group	-
Limited quantity Passenger	Y203 30 kg G

**Description of the goods**

AEROSOLS, FLAMMABLE

**15. Regulatory information****Labelling**

Additional advice on labelling According to EC-regulations the product is to be labelled as follows:

Indication of danger F+ - Extremely flammable

**R phrases**

- 12 Extremely flammable.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

- 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

**Special labelling for certain preparations**

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**National regulatory information**

Employment restrictions	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D) 1999/13/EC (VOC)	2 - water contaminating 100 %

**16. Other information****Full text of R-phrases referred to under sections 2 and 3**

- 12 Extremely flammable.  
51 Toxic to aquatic organisms.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
53 May cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

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**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*