

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

19920400

Reviewed on: 13.05.2019

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## 01 Identification of the substance/mixture and of the company undertaking

- **Product identifier**

- Trade name:  
senotherm® Ofenspray 150ml titan n.V. 11082 17-1102-707935
- Article number:  
707935

Intended use:  
Industrial applications

- Relevant identified uses of the substance or mixture and uses advised against  
Not determined.
- Application of the substance / the preparation

- **Details of the supplier of the safety data sheet**

- Manufacturer/Supplier:  
WEILBURGER Coatings GmbH  
Ahäuserweg 12-22  
D-35781 Weilburg  
Telefon: 00496471 315-0  
Fax : 00496471 315-116
- Further information obtainable from:  
Product safety department. Roland Hofmann Tel. +49 (0) 6471 315 177 Fax +49 (0) 6471 315 5177 E-Mail: R.Hofmann@weilburger.com
- Emergency telephone number:  
Tel. +49 (0) 6471 315 177 This phone number is available only during office hours: Mon - Thu 7:00 - 16:00 hrs CET Fri 7:00 - 13:00 hrs CET

## 02 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02

Flam. Aerosol 1 - H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 - H319 Causes serious eye irritation.  
STOT SE 3 - H336 May cause drowsiness or dizziness.

- Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS02



GHS07

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**PRODUCT : senotherm® Ofenspray 150ml titan n.V. 11082 17-1102-707935**
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- Signal word  
Danger
- Hazard-determining components of labelling:  
acetone / xylene / butan-1-ol
- Hazard statements  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H319-EUH066 Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.  
H336 May cause drowsiness or dizziness.
- Precautionary statements  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- **Other hazards**
- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.

**03 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- Description:  
Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

<b>CAS Number</b>		<b>%</b>
67-64-1	<b>acetone</b> <b>EC number: 200-662-2</b> <b>Record number 01-2119471330-49-XXXX</b>  <b>Flam. Liq. 2 - H225;</b>  <b>Eye Irrit.</b> <b>2 - H319-EUH066, STOT SE 3 - H336</b>	25,01- 50,00
106-97-8	<b>butane</b> <b>EC number: 203-448-7</b> <b>substance with a Community workplace exposure limit.</b>  <b>Flam. Gas 1 - H220;</b>  <b>Press. Gas</b> <b>(Liq.) - H280</b>	10,01- 25,00
71-36-3	<b>butan-1-ol</b> <b>EC number: 200-751-6</b> <b>Record number 01-2119484630-38-XXXX</b>	1,01- 02,50

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100-41-4	<p> <span style="color: red;">⚠</span> Eye Dam. 1 - H318; <span style="color: red;">⚠</span> Flam. Liq. 3            - H226; <span style="color: red;">⚠</span> Acute Tox. 4 - H302, Skin            Irrit. 2 - H315, STOT SE 3 - H335-H336  <b>ethylbenzene</b>            EC number: 202-849-4            Record number 01-2119489370-35-XXXX  <span style="color: red;">⚠</span> Flam. Liq. 2 - H225; <span style="color: red;">⚠</span> STOT RE 2 -            H373, Asp. Tox. 1 - H304; <span style="color: red;">⚠</span> Acute Tox. 4            - H332         </p>	1,01- 02,50
1330-20-7	<p> <b>xylene</b>            EC number: 215-535-7            Record number 01-2119488216-32-XXXX  <span style="color: red;">⚠</span> STOT RE 2 - H373, Asp. Tox. 1 - H304;  <span style="color: red;">⚠</span> Flam. Liq. 3 - H226; <span style="color: red;">⚠</span> Acute Tox.            4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2            - H315, Eye Irrit. 2 - H319, STOT SE 3 -            H335         </p>	2,51- 10,00
108-65-6	<p> <b>2-methoxy-1-methylethyl acetate</b>            EC number: 203-603-9            Record number 01-2119475791-29-XXXX  <span style="color: red;">⚠</span> Flam. Liq. 3 - H226; <span style="color: red;">⚠</span> STOT SE 3 -            H336         </p>	1,01- 02,50

**04 First aid measures**

- Description of first aid measures
- **General information:**  
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- **After inhalation:**  
Remove to fresh air, keep patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.
- **After skin contact:**  
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.
- **After eye contact:**  
Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.
- **After swallowing:**  
If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
- **Information for doctor:**
- Most important symptoms and effects, both acute and delayed  
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

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## 05 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
alcohol resistant foam, CO<sub>2</sub>, powder, water spray/mist
- **For safety reasons unsuitable extinguishing agents:**  
water jet
- **Special hazards arising from the substance or mixture**  
Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be hazardous to health.
- **Advice for firefighters**
- Protective equipment:  
Appropriate self-contained breathing apparatus may be required.
- **Additional information**  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

## 06 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.
- **Environmental precautions:**  
Do not allow to enter drains or water courses. If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.
- **Reference to other sections**

## 07 Handling and storage

- **Handling:**
- Precautions for safe handling  
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. The product may charge electrostatically. Use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing. Non-sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection, see Section 8.
- Conditions for safe storage, including any incompatibilities
- **Storage:**
- Requirements to be met by storerooms and receptacles:  
Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility:  
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- Further information about storage conditions:  
Protect from heat and direct sunlight.  
Store under lock and key and out of the reach of children.

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Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- **Specific end use(s)**

No further relevant information available.

**08 Exposure controls/personal protection**

- Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

67-64-1 acetone

WEL

<i>Short-term value</i>	3620	mg/m3
	1500	ppm
<i>Long-term value</i>	1210	mg/m3
	500	ppm

106-97-8 butane

OEL

<i>Short-term value</i>	1810	mg/m3
	750	ppm
<i>Long-term value</i>	1450	mg/m3
	600	ppm

71-36-3 butan-1-ol

WEL

<i>Short-term value</i>	154	mg/m3
	50	ppm

Sk

100-41-4 ethylbenzene

WEL

<i>Short-term value</i>	552	mg/m3
	125	ppm
<i>Long-term value</i>	441	mg/m3
	100	ppm

Sk

1330-20-7 xylene

WEL

<i>Short-term value</i>	441	mg/m3
	100	ppm
<i>Long-term value</i>	220	mg/m3
	50	ppm

Sk; BMGV

108-65-6 2-methoxy-1-methylethyl acetate

WEL

<i>Short-term value</i>	548	mg/m3
	100	ppm
<i>Long-term value</i>	274	mg/m3
	50	ppm

Sk

- Ingredients with biological limit values:

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1330-20-7      xylene  
 BMGV

650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

- Additional information:  
The lists that were valid during the creation were used as basis.
- Exposure controls
- **Personal protective equipment:**
- General protective and hygienic measures:  
All parts of the skin should be washed after contact.
- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Short term filter device: Filter A/P2
- Protection of hands: To avoid skin problems reduce the wearing of gloves to the required minimum. Avoid direct contact with the chemical/ the product/ the preparation by organisational measures. Check protective gloves prior to each use for their proper condition. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability. If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended. Solvent resistant gloves
- Material of gloves
- Penetration time of glove material
- Eye protection: Eye protection designed to protect against liquid splashes should be worn.
- Body protection: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

## 09 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Aerosol
<b>Colour:</b>	Grey
<b>Odour:</b>	Like solvents
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.

#### Change in condition

**Initial boiling point and boiling range:** -44 °C Not applicable, as aerosol.

**Flash point:** -97 °C Not applicable, as aerosol.

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:** 365 °C

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Not determined.

**Explosive properties:** Not determined.

#### Explosion limits:

**Lower:** 1,10 Vol %

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<b>Upper:</b>	13,00 Vol %
<b>Vapour pressure:</b>	at 20 °C 8.000,0000 HPa
<b>Density:</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	88,22 %
<b>Solids content:</b>	11,74 %
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- Reactivity
- Chemical stability
- **Conditions to be avoided:**  
Stable under the recommended storage and handling conditions (see Section 7).
- Possibility of hazardous reactions  
No dangerous reactions known.
- Conditions to avoid  
No further relevant information available.
- **Incompatible materials:**  
No further relevant information available.
- **Hazardous decomposition products:**  
In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- LD/LC50 values relevant for classification:
  - 67-64-1 acetone**  
Oral, LD50: 5800 mg/kg (rat)  
Dermal, LD50: 20000 mg/kg (Rabbit)
  - 106-97-8 butane**  
Inhalative, LC50/4h: 658 mg/l (rat)
  - 71-36-3 butan-1-ol**  
Oral, LD50: 2292 mg/kg (rat)  
Dermal, LD50: 3430 mg/kg (Rabbit)  
Inhalative, LC50/4h: 17,76 mg/l (rat)
  - 100-41-4 ethylbenzene**  
Oral, LD50: 3500 mg/kg (rat)  
Inhalative, LC50/4h: 17,2 mg/l (rat)
  - 1330-20-7 xylene**  
Oral, LD50: 8640 mg/kg (rat)  
Inhalative, LC50/4H: 27,6 mg/l (rat)
  - 108-65-6 2-methoxy-1-methylethyl acetate**

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Oral, LD50: 8500 mg/kg (rat)  
Dermal, LD50: >5000 mg/kg (Rabbit)  
Inhalative, LC50/4h: 35,7 mg/l (rat)

- **Primary irritant effect:**
- Skin corrosion/irritation  
No irritant effect.
- Serious eye damage/irritation  
Irritating effect.
- Respiratory or skin sensitisation  
No sensitizing effects known.

- **Practical knowledge**

Other observations:

Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

General comment:

There is no data available on the product itself.

**12 Ecological information**

There is no data available on the product itself. The product should not to be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

- Toxicity
- Aquatic toxicity:  
No further relevant information available.
- **Persistence and degradability**  
No further relevant information available.
- **Behaviour in environmental systems:**
- Bioaccumulative potential  
No further relevant information available.
- Mobility in soil  
No further relevant information available.
- **Results of PBT and vPvB assessment**
- PBT:  
Not applicable.
- vPvB:  
Not applicable.
- **Other adverse effects**  
No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- Recommendation  
After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste. Do not allow into drains or water courses or dispose of where ground or surface waters may be effected.

- **Uncleaned packaging:**

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- Recommendation:  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

**14 Transport information**

- **UN-Number**

ADR UN1950  
 IMDG UN1950  
 IATA UN1950

- **UN proper shipping name**

ADR 1950 AEROSOLS  
 IMDG AEROSOLS  
 IATA AEROSOLS, FLAMMABLE

- **Transport hazard class(es)**

ADR  
 Class 2 Gases.  
 Label **2.1**



IMDG  
 Class 2.1  
 Label **2.1**



IATA  
 Class 2.1  
 Label **2.1**



- **Packing group**

ADR -  
 IMDG -  
 IATA -

- **Environmental hazards:**

Not applicable.

- **Special precautions for user**

Warning: Gases.

**Danger code (Kemler):** 23

**EMS Number:** F-D,S-U

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

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Not applicable.

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• **Transport/Additional information:**

Not applicable.

**Excepted quantities (EQ):** E0

**Limited quantities (LQ)** 1L

**Transport category** 2

**Tunnel restriction code** D

**IMDG**

**Limited quantities (LQ)** 1L

**Excepted quantities (EQ)** E0

• **UN "Model Regulation":**

UN 1950 AEROSOLS, 2 (2.1), -

## 15 Regulatory information

• **Safety, health and environmental regulations/legislation specific for the substance or mixture**

• REGULATION (EC) No 1907/2006 ANNEX XVII  
Conditions of restriction: 30, 48

• **National regulations:**

• Technical instructions (air):

• Class Share in %

III 17,32

II 0,09

• Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

• **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

## 16 Other information

The information contained in this safety data sheet is provided in accordance with the requirements of the CHIP regulation. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance of health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitable for particular applications.

• Relevant phrases

EUH066 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

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H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

- **Department issuing MSDS:**

Product safety department.

- **Contact:**

Roland Hofmann Tel. +49 (0) 6471 315 177 Fax +49 (0) 6471 315 5177 email:  
R.Hofmann@weilburger.com

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- \* Data compared to the previous version altered.