

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

18427402

Reviewed on: 01.03.2017

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

### • **Product identifier**

- Trade name:  
senotherm®-Paint for Hotplates anthracite grey. 05-1121-700063
- Article number:  
700063

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

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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. Liq. 2 - H225 Highly flammable liquid and vapour.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.

STOT SE 3 - H336 May cause drowsiness or dizziness.



GHS08

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- \* Repr. 2 - H361d Suspected of damaging the unborn child.
- \* STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

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



GHS02



GHS07



GHS08



GHS09

- Signal word  
Danger
- Hazard-determining components of labelling:  
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane / toluene / xylene
- \* • Hazard statements
  - \* H225 Highly flammable liquid and vapour.
  - \* H315 Causes skin irritation.
  - \* H336 May cause drowsiness or dizziness.
  - \* H361d Suspected of damaging the unborn child.
  - \* H373 May cause damage to organs through prolonged or repeated exposure.
  - \* H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P233 Keep container tightly closed.
  - P240 Ground/bond container and receiving equipment.
  - P302+P352 IF ON SKIN: Wash with plenty of water.
  - 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:

CAS Number

100-41-4

ethylbenzene

%

1,01- 02,50

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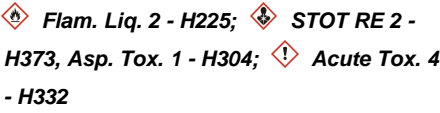
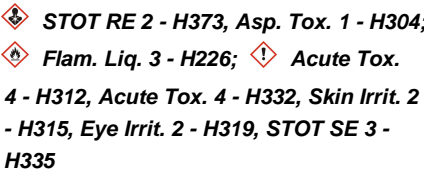
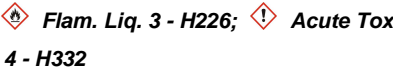
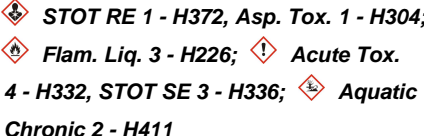

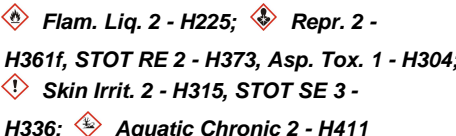
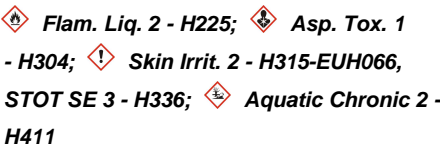
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1330-20-7	<p><b>EC number: 202-849-4</b>  <b>Record number 01-2119489370-35-XXXX</b>  </p>	2,51- 10,00
	<p>xylene</p> <p><b>EC number: 215-535-7</b>  <b>Record number 01-2119488216-32-XXXX</b>  </p>	
108-94-1	<p>cyclohexanone</p> <p><b>EC number: 203-631-1</b>  </p>	1,01- 02,50
-	<p>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</p> <p><b>EC number: 919-446-0</b>  </p>	0,001- 1,00
108-88-3	<p>toluene</p> <p><b>EC number: 203-625-9</b>  <b>Record number 01-2119471310-51-XXXX</b>  </p>	10,01- 25,00
110-54-3	<p>n-hexane</p> <p><b>EC number: 203-777-6</b>  <b>Record number 01-2119474209-33</b>  </p>	0,001- 1,00
-	<p>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</p> <p><b>EC number: 927-344-2</b>  <b>Record number 01-2119475514-35-XXXX</b>  </p>	25,01- 50,00

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*	110-82-7	cyclohexane	0,001- 1,00
*		EC number: 203-806-2	
*		Record number 01-2119463273-41-XXXX	
*		Flam. Liq. 2 - H225; Asp. Tox. 1	
*		- H304; Skin Irrit. 2 - H315, STOT SE	
*		3 - H336; Aquatic Acute 1 - H400,	
*		Aquatic Chronic 1 - H410	
*	67-56-1	methanol	0,001- 1,00
*		EC number: 200-659-6	
*		Record number 01-2119433307-44-XXXX	
*		Flam. Liq. 2 - H225; Acute Tox.	
*		3 - H301, Acute Tox. 3 - H311, Acute Tox. 3	
*		- H331; STOT SE 1 - H370	

## 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.

## 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**

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- 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 sewewrs 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:**  
Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean preferably with a detergent; avoid the use of solvents.
- **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.  
When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed airfed respirator during the spraying process until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.
- Information about fire - and explosion protection:  
Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air.
- Conditions for safe storage, including any incompatibilities
- **Storage:**
- Requirements to be met by storerooms and receptacles:  
Floors should be electrically conductive. Keep container tightly closed. Never use pressure to empty: the container is not a pressure vessel. No Smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage.
- Information about storage in one common storage facility:  
Store separately from oxidising agents and strongly alkaline and strongly acidic materials.
- Further information about storage conditions:  
Always keep in containers made of the same material as the supply container. Observe the label precautions. Store between 5 and 30°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
- Storage class:

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- <sup>3</sup>
- **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:**

* 100-41-4	ethylbenzene		
* WEL			
* Short-term value	552	mg/m3	
* Long-term value	125	ppm	
* Sk	441	mg/m3	
* 1330-20-7	xylene	100	ppm
* WEL			
* Short-term value	441	mg/m3	
* Long-term value	100	ppm	
* Sk, BMGV	220	mg/m3	
* 108-94-1	cyclohexanone	50	ppm
* WEL			
* Short-term value	82	mg/m3	
* Long-term value	20	ppm	
* Sk, BMGV	41	mg/m3	
* 108-88-3	toluene	10	ppm
* WEL			
* Short-term value	384	mg/m3	
* Long-term value	100	ppm	
* Sk	191	mg/m3	
* Sk	50	ppm	

- Ingredients with biological limit values:

1330-20-7 xylene  
BMGV  
650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: methyl hippuric acid

108-94-1 cyclohexanone  
BMGV  
2 mmol/mol creatinine  
Medium: urine

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**Sampling time: post shift**

**Parameter: cyclohexanol**

- 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  
Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.
- 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:  
Tightly sealed eye protection designed to protect against liquid splashes should be worn.
- Body protection:  
Anti-static 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>	Fluid
<b>Colour:</b>	Grey
<b>Odour:</b>	Like solvents
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.

#### Change in condition

<b>Boiling point/Boiling range:</b>	60 °C
<b>Flash point:</b>	>= -7 °C
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	200 °C
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Not determined.

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\*

<b>Danger of explosion:</b>	Not determined.				
<b>Explosion limits:</b>					
<b>Lower:</b>	0,60 Vol %				
<b>Upper:</b>	8,00 Vol %				
<b>Vapour pressure:</b>	at 20 °C	6,7000 HPa	at 50 °C	124,0000	
<b>Density:</b>	1,0490 g/cm3				
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.				
<b>Viscosity:</b>					
<b>Dynamic:</b>	Not determined.				
<b>Kinematic:</b>	at 23 °C	40,00 s DIN 4 mm			
<b>Solvent separation test:</b>	< 3 %				
<b>Solvent content:</b>					
<b>Organic solvents:</b>	62,98 %				
<b>Water:</b>	0,04 %				
<b>Solids content:</b>	36,98 %				
<b>Other information</b>	No further relevant information available.				

## 10 Stability and reactivity

- Reactivity
- Chemical stability
- **Conditions to be avoided:**  
Staple 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:**  
Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
- **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:
  - 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)
  - 108-94-1 cyclohexanone**  
Oral, LD50: 1900 mg/kg (rat)  
Dermal, LD50: 948 mg/kg (Rabbit)

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Inhalative, LC50/4h: 11,0 mg/l (rat)

- **Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

Oral, LD50: 15000 mg/kg (rat)

Dermal, LD50: 3400 mg/kg (rat)

Inhalative, LC50/4h: 13,1 mg/l (rat)

- 108-88-3 toluene**

Oral, LD50: 5000 mg/kg (rat)

Dermal, LD50: 12124 mg/kg (Rabbit)

Inhalative, LC50/4h: 31 mg/l (rat)

- **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

Oral, LD50: >5840 mg/kg (rat)

Dermal, LD50: >2920 mg/kg (rat)

Inhalative, LC50/4h: 25,2 mg/l (rat)

- \* **110-82-7 cyclohexane**

Oral, LD50: 12705 mg/kg (rat)

- \* **67-56-1 methanol**

Oral, LD50: 13000 mg/kg (rat)

Dermal, LD50: 15800 mg/kg (Rabbit)

- \* Inhalative, LC50/4h: 85 mg/l (rat)

- Primary irritant effect:
- on the skin:  
Irritant to skin and mucous membranes.
- on the eye:  
No irritating effect.
- Sensitization:  
No sensitizing effects known.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)  
Repr. 2

### • 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.

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

## 14 Transport information

### • UN-Number

ADR UN1263

IMDG UN1263

IATA UN1263

### • UN proper shipping name

ADR 1263 PAINT

IMDG PAINT (HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N- HEXANE)

IATA PAINT

### • Transport hazard class(es)

ADR 3 Flammable liquids.

Class

Label



IMDG

Class

Label



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**IATA**

**Class**

3 Flammable liquids.

**Label**



• **Packing group**

**ADR**

II

**IMDG**

II

**IATA**

II

• **Environmental hazards:**

**Marine pollutant:**

Yes

• **Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):**

33

**EMS Number:**

F-E,S-E

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

Not applicable.

• **Transport/Additional information:**

Not applicable.

**Excepted quantities (EQ):**

E2

**Limited quantities (LQ)**

5L

**Transport category**

2

**Tunnel restriction code**

D/E

**IMDG**

**Limited quantities (LQ)**

5L

**Excepted quantities (EQ)**

E2

• **UN "Model Regulation":**

UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS

## 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: 3, 48, 57

• **National regulations:**

• **Technical instructions (air):**

• **Class Share in %**

III 0,10

II 22,31

\* I 1,03

III 0,50

• **Waterhazard class:**

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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.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
* H400	Very toxic to aquatic life.
* H410	Very toxic to aquatic life with long lasting effects.
* H411	Toxic to aquatic life with long lasting effects.

• **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

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- \* Data compared to the previous version altered.