

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

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

• **Product identifier**

• Trade name:
senotherm®-Paint ES black 05-1666-703435

• Article number:
703435

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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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



GHS08

STOT RE 1 - H372 Causes damage to the central nervous system through prolonged or repeated exposure.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.
Eye Irrit. 2 - H319 Causes serious eye irritation.
STOT SE 3 - H335 May cause respiratory irritation.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

(continued on page 2)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

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PRODUCT : senotherm®-Paint ES black 05-1666-703435

(continued of page 1)

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



GHS08 GHS02 GHS07

- Signal word
Danger
- Hazard-determining components of labelling:
xylene / Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 1-methoxy-2-propanol
- Hazard statements
H372 Causes damage to the central nervous system through prolonged or repeated exposure.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful 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 NO.	Description Index R-phrases	%
-	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) EC number: 919-446-0 ☠ STOT RE 1 - H372, Asp. Tox. 1 - H304; ☠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H332, STOT SE 3 - H336; ☠ Aquatic Chronic 2 - H411	10,01- 25,00
95-63-6	1,2,4-trimethylbenzene EC number: 202-436-9 ☠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, STOT SE 3 - H335; ☠ Aquatic	0,001- 1,00

(continued on page 3)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435*(continued of page 2)*

108-67-8	Chronic 2 - H411 mesitylene EC number: 203-604-4 ⚠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H335; ⚠ Aquatic Chronic 2 - H411	0,001- 1,00
1330-20-7	xylene EC number: 215-535-7 Record number 01-2119488216-32-XXXX ⚠ STOT RE 2 - H373, Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, STOT SE 3 - H335	25,01- 50,00
100-41-4	ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35-XXXX ⚠ Flam. Liq. 2 - H225; ⚠ STOT RE 2 - H373, Asp. Tox. 1 - H304; ⚠ Acute Tox. 4 - H332	2,51- 10,00
108-65-6	2-methoxy-1-methylethyl acetate EC number: 203-603-9 Record number 01-2119475791-29-XXXX ⚠ Flam. Liq. 3 - H226	2,51- 10,00
107-98-2	1-methoxy-2-propanol EC number: 203-539-1 Record number 01-2119457435-35-XXXX ⚠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H336	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.

GB

(continued on page 4)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435*(continued of page 3)***05 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**
alcohol resistant foam, CO₂, 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:**
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:

(continued on page 5)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435*(continued of page 4)*

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:**
3
- **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:**

CAS No.	Designation of material		
1330-20-7	xylene		
WEL			
	Short-term value	441	mg/m3
		100	ppm
	Long-term value	220	mg/m3
		50	ppm
	Sk; BMGV		
100-41-4	ethylbenzene		
WEL			
	Short-term value	552	mg/m3
		125	ppm
	Long-term value	441	mg/m3
		100	ppm
	Sk		
108-65-6	2-methoxy-1-methylethyl acetate		
WEL			
	Short-term value	548	mg/m3
		100	ppm
	Long-term value	274	mg/m3
		50	ppm
	Sk		
107-98-2	1-methoxy-2-propanol		
WEL			
	Short-term value	560	mg/m3
		150	ppm
	Long-term value	375	mg/m3
		100	ppm
	Sk		

- **Ingredients with biological limit values:**

1330-20-7	xylene
BMGV	
	650 mmol/mol creatinine
	Medium: urine

(continued on page 6)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435

(continued of page 5)

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
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:**

Form:	Fluid
Colour:	Black
Odour:	Like solvents
Odour threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Boiling point/Boiling range:	135 °C
Flash point:	>= 26 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	201 °C
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	0,60 Vol %
Upper:	10 Vol %

(continued on page 7)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435

(continued of page 6)

Vapour pressure:	at 20 °C	3,3700 HPa	at 50 °C	46,0000 HPa
Density:	1,0030 g/cm ³			
Solubility in / Miscibility with water:	Not miscible or difficult to mix.			
Viscosity:	Not determined.			
Kinematic:	at 23 °C	22,00 s DIN 4 mm		
Solvent separation test:	< 3 %			
Solvent content:				
Organic solvents:	72,46 %			
Solids content:	27,55 %			
Other information	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:
 - **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)
 - 95-63-6 1,2,4-trimethylbenzene**
Oral, LD50: 5000 mg/kg (rat)
 - 1330-20-7 xylene**
Oral, LD50: 8640 mg/kg (rat)
Inhalative, LC50/4h: 27,6 mg/l (rat)
 - 100-41-4 ethylbenzene**
Oral, LD50: 3500 mg/kg (rat)
Inhalative, LC50/4h: 17,2 mg/l (rat)
 - 108-65-6 2-methoxy-1-methylethyl acetate**
Oral, LD50: 8500 mg/kg (rat)
Dermal, LD50: >5000 mg/kg (Rabbit)
Inhalative, LC50/4h: 35,7 mg/l (rat)
 - 107-98-2 1-methoxy-2-propanol**
Oral, LD50: 7200 mg/kg (rat)
Dermal, LD50: 13500 mg/kg (Rabbit)

(continued on page 8)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435*(continued of page 7)*

Inhalative, LC50/4h: 54,6 mg/l (rat)

- **Primary irritant effect:**
- on the skin:
Irritant to skin and mucous membranes.
- on the eye:
Irritating effect.
- **Sensitization:**
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 de 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:**

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

GB

(continued on page 9)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435*(continued of page 8)***14 Transport information**

- **UN-Number**

ADR UN1263
 IMDG UN1263
 IATA UN1263

- **UN proper shipping name**

ADR 1263 PAINT
 IMDG PAINT
 IATA PAINT

- **Transport hazard class(es)**

ADR
 Class 3 Flammable liquids.
 Label



IMDG
 Class 3 Flammable liquids.
 Label



IATA
 Class 3 Flammable liquids.
 Label



- **Packing group**

ADR III
 IMDG III
 IATA III

- **Environmental hazards:**

Not applicable.

- **Special precautions for user**

Warning: Flammable liquids.

Danger code (Kemler): 30

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): E1

Limited quantities (LQ) 5L

Transport category 3

Tunnel restriction code D/E

(continued on page 10)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435

(continued of page 9)

IMDG**Limited quantities (LQ)** 5L**Excepted quantities (EQ)** E1

- **UN "Model Regulation":**

UN 1263 PAINT, 3, III

15 Regulatory information

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

- **National regulations:**

- Technical instructions (air):

- Class Share in %

III	16,28
I	0,03

- 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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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@grebe.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)

(continued on page 11)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



12318513

Reviewed on: 26.04.2016

PRODUCT : senotherm®-Paint ES black 05-1666-703435

(continued of page 10)

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