

SENTOS V-LR3



spraying · trickling · lubricants

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

1.1 **Product identifier**

SENTOS V-LR3 Trade name:

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

Use of the Substance/

industrial use

Mixture

Uses adviced against At this moment we have not identified any uses adviced against

1.3 Details of the supplier of the safety data sheet

Company : HPM Technologie GmbH

Rudolf-Diesel-Straße 3 D-72525 Münsingen

: +49 (0)7381 9344-0 Telephone : +49 (0)7381 9344-88 Telefax E-Mail-adress : info@hpmtechnologie.de

1.4 **Emergency telephone number**

Emergency telephone

number : +49 (0)208-7828-0 available 24h/7d

2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Regulation (EC) Nr. 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Aspiration hazard	Category 1		H304

For the full text of the H-Statement mentioned in this section, see Section 16.

Classification according to EU Directives 67/548/EEC oder 1999/45/EC

Directive 67/548/EEC or 1999/45/EC		
Hazard symbol/ Category of danger Risc phrases		
Harmful (Xn)	R65	
	R66	



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For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information

Physical and chemical hazards : See section 9 for physicochemical information.

Potential environmental effects: See section 12 for environmental information.

2.2. Label elements

Hazard symbols

Labelling according to Regulation (EC) No 1272/2008

Signal word : Danger

Hazard statements : H304 may be fatal if swallowed and enters airways.

Precautionary statements

: P301 + P310 IF SWALLOWED: immediately call a POISON CENTER or Response

Doctor/physician.

Do NOT induce vomiting : P331

: P405 Storage store looked up.

Disposal : P501 Dispose of contents/container to an approved waste

Disposal plant

Additional Labelling:

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous components which must be listed on the label:

- Hydrocarbons, C10-C13, iso-Alkane, cyclics, <2% aromatics
- Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclics, <2% aromatics

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5



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3 **Composition / information on ingredients**

3.1 **Mixtures**

Chemical nature : Preparation of substances listed below with non-hazardous additions.

Hazardous components		Amount[%]	Classification (Regulation (EC) Nr. 1272/2008)		Classification	
		7 11110 11111 [70]	Hazard class/hazar Category	d Hazard statements	(67/548/EEC)	
Hydrocarbons	, C10-C13, isoalkanes, cyclcs,	<2% aromatics				
EC-No Registration	: 918-317-6 : 01-2119474196-32-xxxx	>=25 - <50	Asp. Tox. 1 Aquatic Chronic3	H304 H412	Harmful; Xn; R65 R66	
Hydrocarbons	s, C10-C13,n-alkanes, isoalkan	es, cyclics <2% a	romatics			
EC-No. Registration	: 918-481-9 : 01-2119457273-39-xxxx	>=25 - <50	Asp. Tox. 1	H304	Harmful;Xn;R65 R66	

Remarks : Benzene < 0,1 %

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

First aid measures 4

4.1 Description of first aid measures

General advice : Move out of dangerous area. Take off immediately all contaminated clothing.

If inhaled : Move to fresh air. If not breathing, if breathing is irregular or if respiratory

Arrests occurs, provide artificial respiration or oxygen by trained personnel.

Consult a physician after significant exposure. If unconscious place in

recovery.

Position and seek medical advice.

In case of skin contact : Wash off immediately with soap and plenty of water. If skin irritation persists,

call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10

minutes. If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Risk of aspiration!

Call a physician immediately. If a person vomits when lying on his back,

place him in the recovery position.

4.2 Most important symptoms and effect, both acute and delayed

Symptoms : Symptoms of overexposure may be headache, dizziness, tiredness, nausea

And vomiting. Inhalation can cause CNS-depression and narcotics. Dries

Out the skin.



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Effects : Risk of serious damage to the lungs (by aspiration)

Aspiration may cause pulmonary oedema and pneumonic.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically

5 Firefighting measures

5.1 Extinguishing measures

Suitable extinguishing

media

: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing

Media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazard during

Firefighting

: Combustible liquid. Vapours may form explosive mixtures with air. The Product is insoluble and floats on water. Incomplete combustion may form toxic

Pyrolysis products. Fire may cause evolution of: carbon oxides

5.3 Advice for firefighters

Special protective

Equipment for firefighters

: In the event of fire, wear self-contained breathing apparatus. Wear appropriate

body protection (full protective suit)

Further information : cool closed containers exposed to fire with water spray. Collect contaminated

Fire extinguishing water separately. This must not be discharged into drains.

6 Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Provide adequate ventilation.

Keep away from heat and sources of ignition. Avoid contact with skin and

eyes. Do not breathe gas/fumes/vapour/spray.

6.2 Environmental precautions

Environmental : Do not flush into surface water or sanitary sewer system.

Precautions Avoid subsoil penetration. If the product contaminates rivers and

Lakes or drains inform respective authorities. If material reaches

Soil inform authorities responsible for such cases.

6.3 Methods and materials for containment and cleaning up

Methods and material for Containment and cleaning up

: Ensure adequate ventilation. Absorb with liquid-binding material(sand, diatomite, acid binders, universal binders). Treat recovered material as

described in the section "Disposal considerations".



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6.4 Reference to other sections

For personal protection see section 8.

7 Handling and storage

7.1 Precaution for safe handling

Advice on safe handling : Keep containers tightly closed. Avoid inhalation of vapour or mist.

Provide sufficient air exchange and/ or exhaust in work rooms.

Hygiene measures : Take off all contaminated clothing immediately. Do not breathe gas/fumes/

vapour/ spray. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks

and at the End of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirement for storage Areas and containers : Keep in an area equipped with solvent resistant flooring. Keep containers

tightly closed in a dry, cool and well-ventilated place.

Advice on protection against fire and explosion

: Combustible liquid. Possible formation of ignitable mixtures in air if

heated above flash point and/or if sprayed (atomised).

Handle only at temperatures at least 15° C below the flash point. Keep away from sources of ignition- No smoking. Take measures to

prevent the build-up of electrostatic charge.

7.3 Specific end use(s)

Specific use(s) : No information available

8 Exposure controls/personal protection

8.1 Control parameters

IComponent: C9-C15 Aliphatics

Other Occupational Exposure Limit Values

TRGS 900, AGW: 600 mg/m3, (2(II))

Hydrocarbon mixture, application as solvent (hydrocarbon solvent), additive-free

8.2 Exposure controls

Appropriate engineering controls

Refer to protective measures listed in section 7 and 8

Personal protective equipment

Advice : Required, if exposure limit is exceeded (e.g. OEL)



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agor exposure use self-contained breathing apparatus

In case of intensive or longer exposure use self-contained breathing apparatus. In case of brief exposure or low pollution use breathing filter apparatus.

Recommended Filter type: Combination filter: A-P2

Hand protection

Advice : Solvent-resistant gloves

Take note of the information given by the producer concerning permeability and Break through times , and of special workplace conditions (mechanical strain,

duration of contact).

Protective gloves should be replaced at first signs of wear.

The following materials are suitable:

Material : Nitrile rubber

Break through time : >=480 min

Glove thickness : 0,45 mm

Eye protection

Advice : Tightly fitting safety googles

Skin and body protection

Advice : Protective work clothing

Enviromental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

If material reaches soil inform authorities responsible for such cases.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : liquid

Colour : colourless

Odour : characteristics

Odour Threshold : no data available

pH : no data available

Freezing point : no data available

Boiling point/

: > 180 °C

Boiling rate

Flash point : 61 - 66°C



Evaporation rate

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Flammability (solid, gas) : no data available

Upper explosion limit : 7% (V)

Lower explosion limit : 0,6% (V)

Vapour pressure : 0,5 hPa (20°C)

Relative vapour density : no data available

: 0,797 g/cm³ (20°C) Density

Water solubility : not respectively poorly mixable

Partition coefficient

n-octanol/ water

: no data available

: no data available

: no data available auto-ignition temperature

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Explositivity : formation of explosive air/vapour mixture is possible.

Oxidizing properties : no data available

9.2 Other information

No further information available.

10 Stability and reactivity

10.1 Reactivity

> Advice : No decomposition if stored and applied as directed.

10.2 Chemical stability

> Advice : Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

> Hazardous reactions : Formation of explosive air/vapour mixtures is possible.

10.4 Conditions to avoid

> Conditions to avoid : Heat, flames and sparks. Keep away from direct sunlight.



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10.5 Incompatible materials

> Materials to avoid : strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Fire may cause evolution of: Carbon oxides, under certain fire conditions,

traces of other toxic products cannot be excluded.

11 **Toxicological information**

11.1 Information on toxicological effects

	Acute toxicity	
	Oral	
For this mixture is no data available. Please find this information in the listing of the		
Component/co	omponents below in the MSDS.	
	Inhalation	
	e is no data available.	
Please find this	s information in the listing of the component/components below in the MSDS.	
	Dermal	
	e is no data available. s information in the listing of the component/components below in the MSDS.	
	Irritation	
	Skin	
Result	: Repeated exposure may cause skin dryness or cracking.	
	Eyes	
Result	: Based an available data, the classification criteria are not met.	
	Sensitisation	
Result	: Based on available data, the classification criteria are not met.	
	CMR effects	
	CMR Properties	
Carcinogenicity	: For this product currently is no data available.	
	Based on available data, the classification criteria are not met.	
Mutagenicity	: For this product currently is no data available.	
	Based on available data, the classification criteria are not met.	
Reproductive toxicity	: For this product currently is no data available.	
The Francisco Control of	Based on available data, the classification criteria are not met.	
	Specific Target Organ Toxicity	
	Single exposure	



LC50

LD50

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remark	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
	Repeated exposure
remark	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
	Other toxic properties
	Repeated dose toxicity
	No data available
	Aspiration Hazard
	May be fatal if swallowed and enters airways.
Component:	Hydrocarbons C10-C13, isoalkanes, cyclics, <2% aromatics
	Acute toxicity
	Oral
LD50 Oral	: >5000mg/kg (rat, male and female) (OECD-Test Guideline 401)
	Aspiration may cause pulmonary oedema and pneumonitis.
	Inhalation
LC50	: >5 mg/l (rat, male and female) (OECD Test Guideline 403)
	Inhalation may cause central nervous system effects.
	Dermal
LD50 Dermal	: >5000mg/kg (rabbit) (OECDTest Guideline 402)
Components:	Hydrocarbons, C10-C13, isoalkanes, n-Alkanes, cyclics, >2% aromatics
	Acute toxicity
	Oral
LD50	: >5000mg/kg (rat) Data based on test results or dta from a comparable product.
	Inhalation

: >4,951 mg/l (rat, vapour) (OECDTest Guideline 403)

:>5000 mg/kg (rabbit) (OECD Test Guideline 402)

Dermal

Data based on test results or data from a comparable product.

Data based on test results or data from a comparable product.



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12 Ecological information

12.1 Toxicty

Component:	Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics
	Acute toxicity
	Fish
LL50	: > 1000 mg/l (Oncorhynchus aquabonita ;96 h) (OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic invertebrates
EL50	: 1000mg/l (Daphnia magna; 48h) (OECD Test Guideline 202)
	Algae
EL50	: 1000mg/l (Pseudokirchneriella subcapitata (green algae); 72h) (Toxicity to algae; OECD Test Guideline 201)
Component:	Hydrocarbons, C10-C13,n-alkane, isoalkanes, cyclics, <2% aromatics
	Acute toxicity
	Fish
LLO	: 1000 mg/l (Oncorynchus mykiss (rainbow trout); 96 h) (Toxicity to fish)
	Toxicity to daphnia and other aquaric invertebrates
ELO	: 1000 mg/l (Daphnia magna (Water flea; 48h) (Toxicity to daphnia)
	Algae
ELO	: 1000 mg/l (Pseudokirchneriella subcapitata (green algae); 72h) (Toxicity to algae)

12.2 Persistence and degradability

Component:	Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics
	Persistence and degradability
	Persistence
Result	: no data available
	Biodegradability
Result	: Readily biodegradable
Component:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2 aromatics
	Persistence and degradability
Result	: Transformation due to photolysis not expected to be significant. Transformation due to hydrolysis not expected to be significant.
	Biodegradability
Result	: 80% (Exposure time: 28d) Readily biodegradable.



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12.3 Bioaccumulative potential

Component:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes , cyclics, <2% sromatics		
	Bioaccumulation		
Result	: not determinated		
Component:	: Hydrocarbons, C10-C13,isoalkanes,n-alkanes, cyclics, <2% aromatics		
	Bioaccumulation		
Result	: no data available		

12.4 Mobility in soil

Component:	Hydrocarbons, C10-C13,n-alkanes, isoalkanes, cyclicsh,<2% aromatics
	Mobility
	: Highly volatile, will partition rapidly to air, Not expected to partition to
	Sediment and wastewater solids.
Component:	Hydrocarbons, C10-C13, isoalkane, cyclics,<2% aromatics
	Mobility
	: no data available

12.5 Result of PTB- and vPvB assessment

Component:	Hydrocarbons, C10-C13, isoalkanes, n-alkanes, cyclics, <2% aromatics
	Results of PBT and vPvB assessment
Result	: This substance is not consideres tob e persistent, bioaccumulating nor
	Toxic (PBT) This substance is not considered to be very persistent nor very
	Bioaccumulative (vPvB).
Component:	Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics
Result	: This substance is not consideres tob e persistent, bioaccumulating nor
	Toxic (PBT) This substance is not considered to be very persistent nor very
	Bioaccumulative (vPvB).

12.6 Other adverse effects

	Additional ecological information
Result	: Do not flush into surface water or sanitary sewer system. Do not allow material
	to contaminate ground water system.

13 **Disposal considerations**

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Do not let product enter drains.

Can ben incinerated when in compliance with local regulations.

Packaging

Contaminated: Empty remaining contents. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion. Empty containers should be delivered to local recyclers for disposal or to the provider for their reutilization in case of being subject to a return and deposit system.

European Waste: No waste code according to the European Waste Catalogue can be assigned for this Catalogue No. product, as the intended use dictates the assignment. The waste code is established in

Consultation with the regional waste disposer.



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14 Transport information

Not dangerous goods for ADR, RID and IMDG.

14.1 UN-Number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

15 Regulatory information

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

WGK (DE) : WGK:1; slightly water endangering; WGK (DE);

Major Accident Hazard Legislation : Falls under the German StörfallV.13

Other regulations : Occupational restrictions: Take note of Dir 92/85/EEC on the safety

and health of pregnant workers at work and of Dir 94/33/EC on the

protection of young people at work.

15.2 Chemical Safety Assessment

no data available



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16 Other information

Full text of R-phrases referred to under sections 2 and 3.

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

Full text of H-Statements referred to under sections 2 and 3.

May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

Further information

Key literature references and sources for data

: Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Other information

: The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text