

Version 4.0

## **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier				
Product name :	SENTRON TM/MC LD SYNTHETIC BLEND			
Product code :	STNLDSBP20, STNLDSBIBC, STNLDSBDRM, STNLDSB, STNLDSBDCT			
1.2 Relevant identified uses of the	substance or mixture and uses advised against			
Use of the Sub- : stance/Mixture	SENTRON LD Synthetic Blend is a premium multi-grade 15W- 40 low ash natural gas engine oil with extended drain interval capability. It is suitable for cold environments and offers out- standing deposit control.			
1.3 Details of the supplier of the safety data sheet				
	HollyFrontier LSP Europe BV Mainhavenweg 6 1043 AL Amsterdam The Netherlands +31 (0)85 4000080			
E-mail address of person : responsible for the SDS	EUSDS@hfsinclair.com, REACH Only Representative (OR): INTERTEK FRANCE Allée de la Fosse Moret Eco parc 2 27400 Heudebouville France Phone number : +33 2 79 23 03 49 Email address: if.reach@intertek.com			
1.4 Emergency telephone number				
Emergency telephone num- : ber	CHEMTREC: +1-703-741-5970; Poison Control Centre: Consult local telephone directory for emergency number(s).			

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

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### Additional Labelling

EUH208 Contains Calcium long chain alkaryl sulfonate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

## Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Lubricating oils (petroleum), C15- 30, hydrotreated neutral oil-based; Baseoil — unspecified	72623-86-0	Asp. Tox. 1; H304	30 - 50
Distillates (petroleum), hy- drotreated heavy paraffinic; Baseoil — unspecified	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25- 0055	Asp. Tox. 1; H304	70 - 90
Phenol, dodecyl-, sulfurized, car- bonates, calcium salts, overbased	68784-26-9 701-251-5	Aquatic Chronic 4; H413	1 - 2.5
reaction mass of isomers of: C7- 9-alkyl 3-(3,5-di-tert-butyl-4- hydroxyphenyl)propionate	125643-61-0 406-040-9 607-530-00-7	Aquatic Chronic 4; H413	1 - 2.5
Calcium long chain alkaryl sul- fonate	722503-68-6	Skin Sens. 1B; H317	0.1 - 1

For explanation of abbreviations see section 16.



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## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

If inhaled	: Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Wash skin thoroughly with soap and water or use recognized skin cleanser.</li> <li>Wash clothing before reuse.</li> <li>Seek medical advice.</li> </ul>
In case of eye contact	<ul> <li>Remove contact lenses.</li> <li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.</li> <li>Obtain medical attention.</li> </ul>
If swallowed	<ul> <li>Rinse mouth with water.</li> <li>DO NOT induce vomiting unless directed to do so by a physician or poison control center.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>Seek medical advice.</li> </ul>

### 4.2 Most important symptoms and effects, both acute and delayed

Risks	:	First aider needs to protect himself.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically
Ireatment	: I reat symptomatica

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.		
Unsuitable extinguishing media	:	No information available.		
5.2 Special hazards arising from the substance or mixture				

Specific hazards during fire- fighting	:	Cool closed containers exposed to fire with water spray.
Hazardous combustion prod- ucts	:	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), phosphorus oxides (POx), calcium oxides (CaOx), zinc oxides (ZnOx), hydrocarbons, smoke and irritat- ing vapours as products of incomplete combustion.



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5.3 Advice for firefighters		
Further information	: Prevent fire extinguishing water from or water or the ground water system.	contaminating surface
SECTION 6: Accidental release measures		
6.1 Personal precautions, protective equipment and emergency procedures		

providence, pr		e equipinent and entergency preceduree
Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions. Mark the contaminated area with signs and prevent access to unauthorized personnel. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.2 Environmental precautions

Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
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#### 6.3 Methods and material for containment and cleaning up

Contact the proper local authorities.	Methods for cleaning up	<ul> <li>Prevent further leakage or spillage if safe to do so. Remove all sources of ignition.</li> <li>Soak up with inert absorbent material.</li> <li>Non-sparking tools should be used.</li> <li>Ensure adequate ventilation.</li> <li>Contact the proper local authorities.</li> </ul>
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### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.
Advice on protection against fire and explosion	:	None known.
Hygiene measures	:	Remove and wash contaminated clothing and gloves, includ- ing the inside, before re-use. Wash face, hands and any ex- posed skin thoroughly after handling.



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7.2 Conditions for safe storage	, inc	luding any incompatibilities	
Requirements for storage areas and containers	: Store in original container. Containers which be carefully resealed and kept upright to prev Keep in a dry, cool and well-ventilated place. labelled containers. To maintain product qual in heat or direct sunlight.		t to prevent leakage. d place. Keep in properly
7.3 Specific end use(s)			
Specific use(s)	:	No data available	

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

8-hour TLV-TWA of 5 mg/m<sup>3</sup> recommended by manufacturer based on ACGIH TLV for mineral oil mists. Consult local authorities for acceptable exposure limits.

#### 8.2 Exposure controls

#### **Engineering measures**

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment				
Eye/face protection :	:	Wear face-shield and protective suit for abnormal processing problems.		
Hand protection Material :	:	neoprene, nitrile, polyvinyl alcohol (PVA), Viton <sup>®</sup> .		
Remarks :	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec- essary.		
Skin and body protection :	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.		
Respiratory protection :	:	Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator.		
Filter type :	:	organic vapour filter		
Protective measures :	:	Wash contaminated clothing before re-use.		

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

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Physical state	:	viscous liquid	
Colour	:	dark brown	
Odour	:	Mild petroleum oil like.	
Odour Threshold	:	No data available	
Pour point	:	-45 °C	
Boiling point/boiling range	:	No data available	
Flash point	:	229 °C	
		Method: Cleveland open cup	
Fire Point	:	259 °C	
Auto-Ignition Temperature	:	No data available	
Evaporation rate	:	No data available	
Upper explosion limit / Upper flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Vapour pressure	:	No data available	
Relative vapour density	:	No data available	
Relative density	:	No data available	
Density	:	0.8582 kg/l (15 °C)	
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity Viscosity, kinematic	:	109.1 cSt (40 °C)	
		15.3 cSt (100 °C)	
Flammability	:	Low fire hazard. This material must be hea will occur.	ted before ignition
Explosive properties	:	Do not pressurize, cut, weld, braze, solder, pose containers to heat or sources of igniti	



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#### 9.2 Other information

No data available

### **SECTION 10: Stability and reactivity**

10.1 Reactivity	
No dangerous reaction known	under conditions of normal use.
10.2 Chemical stability	
Stable under normal conditions	S.
10.3 Possibility of hazardous read	ctions
Hazardous reactions	: Hazardous polymerisation does not occur. Stable under nor- mal conditions.
10.4 Conditions to avoid	
Conditions to avoid	: No data available
10.5 Incompatible materials	
Materials to avoid	: Reactive with oxidising agents.
10.6 Hazardous decomposition p	roducts
Hazardous decomposition products	: May release COx, H2S, methacrylate monomers, alkyl mer- captans, smoke and irritating vapours when heated to decom- position.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure	:	Eye contact Ingestion Inhalation Skin contact
Acute toxicity		
Product:		
Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Components:		
• • • •	, <b>C</b> 1	15-30, hydrotreated neutral oil-based; Baseoil — unspeci-
fied:		LD50 (Rat): > 5,000 mg/kg,
Acute oral toxicity	•	LD50 (rai). > 5,000 mg/kg,
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l
		Exposure time: 4 h
		Test atmosphere: dust/mist



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Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,	
Skin corrosion/irritation			
Product:			
Remarks	:	No data available	
Serious eye damage/eye irrit	ati	on	
Product:			
Remarks	:	No data available	
Respiratory or skin sensitisa	atio	on	
No data available			
<b>Germ cell mutagenicity</b> No data available			
Carcinogenicity			
Product:			
Remarks	:	All components listed in Annex VI to which and contained in the product, have been sh less than 3% DMSO extractables as measu	own to contain
Reproductive toxicity			
No data available			
<b>STOT - single exposure</b> No data available			
STOT - repeated exposure			
No data available			
11.2 Information on other hazard	s		
Endocrine disrupting proper	tie	S	
Product:			
Assessment	:	The substance/mixture does not contain co ered to have endocrine disrupting propertie REACH Article 57(f) or Commission Delega (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher.	s according to ated regulation



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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

	<u>Product:</u> Toxicity to fish	:	Remarks: No data available	
	Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available	
	Toxicity to algae/aquatic plants	:	Remarks: No data available	
	Toxicity to microorganisms	:	Remarks: No data available	
	Ecotoxicology Assessment Chronic aquatic toxicity	:	This product has no known ecotoxicological effects. Remarks: Test data and bridging principles were applied when the ecotoxicity of the phenol, dodecyl-, branched was consid- ered during determination of the environmental classification of this mixture.	
<u>Components:</u> Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspeci- fied:				
	Toxicity to fish	:	NOEC (Fish): > 100 mg/l Exposure time: 96 h	
	Toxicity to daphnia and other aquatic invertebrates	:	NOEC (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h	

Toxicity to algae/aquatic	:	NOEC (algae): > 100 mg/l
plants		Exposure time: 72 h

#### 12.2 Persistence and degradability

#### Product:

Biodegradability	:	Remarks: No data available
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#### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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#### 12.6 Endocrine disrupting properties

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product

<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Offer surplus and non-recyclable solutions to a licensed posal company.</li> <li>Waste must be classified and labelled prior to recycling or disposal.</li> <li>Send to a licensed waste management company.</li> <li>Dispose of product residue in accordance with the instru of the person responsible for waste disposal.</li> </ul>	dis- or
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### **SECTION 14: Transport information**

14.1 UN number or ID number		
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
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## 14.5 Environmental hazards

Not regulated as a dangerous good



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#### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

:

Remarks

ADR: Not Regulated ADN: Not Regulated **RID: Not Regulated** 

### **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Water hazard class (Germa- : WGK 1 slightly hazard ny)	ous to water
The components of this product are reported in the featureDSL: On the inventory, or in	ollowing inventories: compliance with the inventory

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
exemption.

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

### **SECTION 16: Other information**

	Full text of H-Statements			
	H304	:	May be fatal if swallowed and enters airways.	
	H317	:	May cause an allergic skin reaction.	
	H413	:	May cause long lasting harmful effects to aquatic life.	
Full text of other abbreviations				
	Aquatic Chronic	:	Long-term (chronic) aquatic hazard	
	Asp. Tox.	:	Aspiration hazard	
	Skin Sens.	:	Skin sensitisation	

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

For Copy of SDS :	Internet: lubricants.petro-canada.com/sds Order Email for packed goods: pcepackage@hfsinclair.com Order Email for bulk: pceorders@hfsinclair.com Telephone: +31 88313 0365 / +31 88313 0366 For Product Safety Information: 1 905-491-0565
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Prepared by

: Product Safety: +1 905-491-0565

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