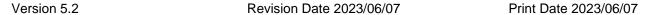
according to Regulation (EC) No. 1907/2006

# SENTRON TM/MC LD 8000





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

1.1 Product identifier

Product name : SENTRON TM/MC LD 8000

Synonyms : RDL3599

Product code : STN8LDDCT, STN8LDDR9, STN8LDDRM,

STN8LDBLK, STN8LDJ20, STN8LD, STN8LDIBC

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

Use of the : SENTRON LD 8000 is a premium low ash natural gas engine

Substance/Mixture oil with extended drain interval capability.

1.3 Details of the supplier of the safety data sheet

Manufacturer or supplier's details

HollyFrontier LSP Europe BV

Mainhavenweg 6 1043 AL Amsterdam The Netherlands

Telephone: +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 : CHEMTREC: +1-703-741-5970;

number 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)

Not a hazardous substance or mixture.

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## **Additional Labelling**

EUH208 Contains Calcium long chain alkaryl sulfonate, Phenol, 2(or 4)-C20-24- alkyl

derivs., reaction products with carbon dioxide, distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs., calcium salts.

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)
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
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, calcium salts, sulfurized including distillates (petroleum), hydrotreated, solventrefined/dewaxed,cat. dewaxed, light/heavy paraffinic C15-C50	68855-45-8 701-249-4	Aquatic Chronic 4; H413	1 - 2.5
Calcium long chain alkaryl sulfonate	722503-68-6	Skin Sens. 1B; H317	0.1 - 1
Phenol, 2(or 4)-C20-24- alkyl derivs., reaction products with carbon dioxide, distn. residues from manuf. of phenol (tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs., calcium	944-406-4	Skin Sens. 1; H317 Skin irr. 2; H315 Aquatic Chronic 3; H412	0.25 - 1

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Salts Solution See Section 16.

## **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 : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Wash skin thoroughly with soap and water or use recognized

skin cleanser.

Wash clothing before reuse.

Seek medical advice.

In case of eye contact : Remove contact lenses.

Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

If swallowed : Rinse mouth with water.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Never give anything by mouth to an unconscious person.

Seek medical advice.

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

Risks : First aider needs to protect himself.

# 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

No information available.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

products

: Cool closed containers exposed to fire with water spray.

Hazardous combustion

: Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), phosphorus oxides (POx), calcium oxides

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(CaOx), zinc oxides (ZnOx), smoke and irritating vapours as

products of incomplete combustion.

5.3 Advice for firefighters

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

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.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Prevent further leakage or spillage if safe to do so.

Remove all sources of ignition.
Soak up with inert absorbent material.
Non-sparking tools should be used.
Ensure adequate ventilation.

Contact the proper local authorities.

### 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

application area.

Use only with adequate ventilation.

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.

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Hygiene measures : Remove and wash contaminated clothing and gloves,

including the inside, before re-use. Wash face, hands and any

exposed skin thoroughly after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.

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/m³ 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®.

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

necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation 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

working limits of the selected respirator.

Filter type : organic vapour filter

Protective measures : Wash contaminated clothing before re-use.

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

### 9.1 Information on basic physical and chemical properties

Physical state : viscous liquid

Colour : dark amber

Odour : No odour or slight petroleum oil like.

Odour Threshold : No data available

Pour point : -30 °C

Boiling point/boiling range : No data available

Flash point : 277 °C

Method: Cleveland open cup

Fire Point : 292 °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 : 0.8782 kg/l (15 °C)

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity

Viscosity, kinematic : 121.4 cSt (40 °C)

13.4 cSt (100 °C)

Flammability : Low fire hazard. This material must be heated before ignition

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will occur.

Explosive properties : Do not pressurize, cut, weld, braze, solder, drill, grind or

expose containers to heat or sources of ignition.

#### 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.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur. Stable under

normal conditions.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Reactive with oxidising agents, acids and alkalis.

# 10.6 Hazardous decomposition products

Hazardous decomposition

products

May release COx, H2S, methacrylate monomers, alkyl mercaptans, smoke and irritating vapours when heated to

decomposition.

# **SECTION 11: Toxicological information**

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

Information on likely routes of : Eye contact

exposure 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

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# Skin corrosion/irritation

**Product:** 

Remarks : No data available

## Serious eye damage/eye irritation

**Product:** 

Remarks : No data available

### Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

## Carcinogenicity

**Product:** 

Remarks : All components listed in Annex VI to which Note L applies,

and contained in the product, have been shown to contain less than 3% DMSO extractables as measured by IP346.

### Reproductive toxicity

No data available

# STOT - single exposure

No data available

# STOT - repeated exposure

No data available

#### 11.2 Information on other hazards

## **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.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

**Product:** 

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available

aquatic invertebrates

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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 considered during determination of the environmental

classification of this mixture.

### 12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

### 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.

#### 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 : The product should not be allowed to enter drains, water

courses or the soil.

Offer surplus and non-recyclable solutions to a licensed

disposal company.

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Waste must be classified and labelled prior to recycling or

disposal.

Send to a licensed waste management company.

Dispose of product residue in accordance with the instructions

of the person responsible for waste disposal.

## **SECTION 14: Transport information**

14.1 UN number or ID number

IMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good

14.2 UN proper shipping name

IMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

IMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good

14.4 Packing group

IMDG : Not regulated as a dangerous goodIATA (Cargo) : Not regulated as a dangerous goodIATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

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

pollutants (recast)

: Not applicable

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REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Water hazard class : WGK 2 obviously hazardous to water

(Germany)

The components of this product are reported in the following inventories:

DSL : On the inventory, or in compliance with the inventory

### 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**

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H412 : Harmful to aquatic life with long lasting effects.
H413 : May cause long lasting harmful effects to aquatic life.

#### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Skin irr. : Skin corrosion/irritation
Skin Sens. : Skin sensitisation

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

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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

Prepared by : Product Safety: +1 905-491-0565

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