

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

**SAE 10W-40 Truck Special Longlife Plus
Article number: 34050, 34051, 34052**

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant uses**

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Ferdinand Bilstein GmbH + Co. KG
Wilhelmstr. 47
58256 Ennepetal / GERMANY
Phone +49 2333 911-0
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Homepage www.febi.com
E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture [REGULATION (GB) CLP]**

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms none

Signal word none

Hazard statements none

Precautionary statements none

Special labelling EUH210 Safety data sheet available on request.

Contains: Calcium sulfonate, Calcium sulfonate, borated. EUH208 May produce an allergic reaction.

2.3 Other hazards

Other hazards none

SECTION 3: Composition / Information on ingredients**3.1 Substances**

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
20 - < 50	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
	CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - < 5	Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester
	CAS: 125643-61-0, EINECS/ELINCS: 406-040-9, EU-INDEX: 607-530-00-7, Reg-No.: 01-0000015551-76-XXXX
	GHS/CLP: Aquatic Chronic 4: H413
0.1 - < 1	Calcium sulfonate, borated
	EINECS/ELINCS: polymer
	GHS/CLP: Skin Sens. 1B: H317 - Repr. 2: H361d
0.1 - < 1	Calcium sulfonate
	EINECS/ELINCS: Polymer
	GHS/CLP: Skin Sens. 1B: H317
0.01 - < 0.1	Phenol, dodecyl-, branched
	CAS: 121158-58-5, EINECS/ELINCS: 310-154-3, EU-INDEX: 604-092-00-9, Reg-No.: 01-2119513207-49-XXXX
	GHS/CLP: Skin Corr. 1C: H314 - Repr. 1B: H360F - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - Eye Dam. 1: H318,
	M-Factor (acute): 10, M-Factor (chronic): 10

Comment on component parts

Contains less than 3% w/w DMSO-extract (only for mineral oils)
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting.
Seek medical advice immediately.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Some risk of slipping due to spillage of product.
Forms slippery surfaces with water.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. oil binder).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of aerosols.
Use only in well-ventilated areas.
Keep away from all sources of ignition - Refrain from smoking.
Do not eat, drink or smoke when using this product.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash before reuse.
Cloths contaminated with product should not be kept in trouser pockets.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2



SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
Long-term exposure: 5 mg/m ³ , oil mist
Short-term exposure (15-minute): 10 mg/m ³

DNEL

Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
Industrial, dermal, Acute - systemic effects, 166 mg/kg bw
Industrial, dermal, Long-term - systemic effects, 0.25 mg/kg bw
Industrial, inhalative (mist), Acute - systemic effects, 44.18 mg/m ³
general population, dermal, Acute - systemic effects, 50 mg/kg bw
general population, dermal, Long-term - systemic effects, 0.075 mg/kg bw
general population, inhalative (mist), Acute - systemic effects, 13.26 mg/m ³
general population, inhalative (mist), Long-term - systemic effects, 0.79 mg/m ³
general population, oral, Long-term - systemic effects, 0.075 mg/kg bw
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m ³
Industrial, inhalative, Long-term - local effects, 5.58 mg/m ³
general population, oral, Long-term - systemic effects, 740 µg/kg bw/day
general population, inhalative, Long-term - local effects, 1.19 mg/m ³
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
Industrial, dermal, Long-term - systemic effects, 220 µg/kg bw/day
Industrial, dermal, Acute - systemic effects, 20 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 6 µg/cm ²
Industrial, inhalative, Acute - systemic effects, 1750 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 2.33 mg/m ³
Industrial, dermal, Acute - local effects, 1 mg/cm ²
general population, inhalative, Long-term - systemic effects, 740 µg/m ³
general population, inhalative, Acute - systemic effects, 875 mg/m ³
general population, dermal, Long-term - systemic effects, 330 µg/kg bw/day
general population, dermal, Acute - local effects, 8.33 mg/cm ²
general population, oral, Long-term - systemic effects, 160 µg/kg bw/day
general population, oral, Acute - systemic effects, 50 mg/kg bw/day

PNEC

Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
oral (food), 4 mg/kg
freshwater, 0.000074 mg/l
sediment (freshwater), 0.226 mg/kg

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sediment (seawater), 0.0226 mg/kg
seawater, 0.0000074 mg/l
soil, 0.188 mg/kg
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
oral (food), 9.33 mg/kg
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
oral (food), 41.33 mg/kg food
sediment (seawater), 37 - 23300 µg/kg sediment dw
soil, 50 - 189000 µg/kg soil dw
sediment (freshwater), 370 - 233000 µg/kg sediment dw
sewage treatment plants (STP), 1 - 100 mg/L
seawater, 30 - 1800 ng/L
freshwater, 4.3 - 30 µg/L

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0.4 mm/ Nitrile rubber, >120 min (EN 374-1/-2/-3).
Skin protection	light protective clothing
Other	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	light brown
Odor	characteristic
Odour threshold	No information available.
pH-value	No information available.
pH-value [1%]	No information available.
Boiling point [°C]	not applicable
Flash point [°C]	234
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm ³]	0.86 (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	101.39 mm ² /s (40°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.



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10.5 Incompatible materials

Strong basic compounds
Strong acids.
Strong oxidizing agent.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
LD50, oral, Rat, 2100 mg/kg bw
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, oral, Rat, 5000 mg/kg bw
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LD50, oral, Rat, 500 - 2000 mg/kg bw

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
LD50, dermal, Rabbit, 15000 mg/kg bw
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, dermal, Rabbit, 2000 - 5 00 mg/kg bw
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LD50, dermal, Rat, 2000 mg/kg bw

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

- Serious eye damage/irritation** Based on the available information, the classification criteria are not fulfilled.
- Skin corrosion/irritation** Based on the available information, the classification criteria are not fulfilled.
- Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.
- Specific target organ toxicity — single exposure** Based on the available information, the classification criteria are not fulfilled.
- Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.

Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
NOAEL, oral, Rat, 60 - 100 mg/kg bw/day
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOAEL, dermal, Rabbit, 1000 mg/kg bw/day
NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day
NOAEC, inhalative, Rat, 980 mg/m ³ air



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LOAEL, oral, Rat, 125 mg/kg bw/day
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
NOAEL, dermal, Rat, 500 - 1000 mg/kg bw/day
NOAEL, oral, Rat, 3 - 750 mg/kg bw/day

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed

- Development

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

Endocrine disrupting properties The mixture contains the following substances with endocrine disrupting potential.: EINECS: 310-154-3

Other information none

SECTION 12: Ecological information

12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
EC50, (24h), Invertebrates, 106 µg/L
EC50, (48h), Invertebrates, 37 - 92.7 µg/L
EC50, (21d), Invertebrates, 7.9 - 8.6 µg/L
EC50, (72h), Algae, 150 - 765 µg/L
EL50, (4d), fish, 40 mg/L
NOEC, (72h), Algae, 70 - 442 µg/L
NOEC, (48h), Invertebrates, 11 µg/L
NOEC, (21d), Invertebrates, 3.7 µg/L
NOELR, (4d), fish, 25 mg/L
EC0, (48h), Invertebrates, 56 µg/L
EC10, (72h), Algae, 530 - 765 µg/L
LOEC, (21d), Invertebrates, 12 µg/L
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
EL50, (48h), Invertebrates, 10 g/L
NOELR, (14d), fish, 1 mg/L
LL50, (96h), Invertebrates, 10 g/L
LL50, (96h), fish, 100 mg/L
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LC50, (14d), fish, 100 mg/L
EC50, (72h), Algae, 180 - 3000000 ng/L
EC50, (3h), Water microorganisms, 100 - 1000 mg/L
EC50, (48h), Invertebrates, 8.2 - 1000000 µg
NOEC, (21d), Invertebrates, 10 µg/L
NOEC, (33d), fish, 360 µg/L

12.2 Persistence and degradability

Behaviour in environment
compartments

Behaviour in sewage plant

Biological degradability

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

The mixture contains the following substances with endocrine disrupting potential.: EINECS: 310-154-3

12.7 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

In according to RoHS!
Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

130205* mineral-based non-chlorinated engine, gear and lubricating oils

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people no

- VOC (2010/75/CE) 0 %

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15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H360F May damage fertility.
 H314 Causes severe skin burns and eye damage.
 H361d Suspected of damaging the unborn child.

H317 May cause an allergic skin reaction.
 H413 May cause long lasting harmful effects to aquatic life.
 H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure



Modified position

SECTION 2 been added: Calcium sulfonate, borated

SECTION 2 been added: Calcium sulfonate

SECTION 3 been added: Phenol, dodecyl-, branched

SECTION 3 been added: Calcium sulfonate, borated

SECTION 3 been added: Calcium sulfonate

SECTION 3 been added: Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9-branched alkyl ester

SECTION 3 deleted: Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

SECTION 3 deleted: calcium phenate derivative, overbased

SECTION 3 deleted: Reaction products of diphenylamine with nonene, branched

SECTION 2 been added: EUH208 May produce an allergic reaction.

SECTION 11 been added: The mixture contains the following substances with endocrine disrupting potential.: [x]

SECTION 12 been added: The mixture contains the following substances with endocrine disrupting potential.: [x]