

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

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

1.1 Product identifier

Trade name: **CLASSIC MEDUNA LT 1040 LA PLUS**

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

No further relevant information available.

Application of the substance / the mixture Motor Oil

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Classic Schmierstoff GmbH & Co. KG

Lange Straße 100-106

D-27318 HOYA

DEUTSCHLAND

Telephone: +49 (4251) - 8120

products@classic-oil.de

Further information obtainable from: Productmanagement

1.4 Emergency telephone number:

+44 892 0111

National Poisons Information Service (Cardiff Centre)

Gwenwyn Ward, Llandough Hospital

Penarth

CF64 2XX Cardiff

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:

2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane (2-aminopropyl) ether and 2-methyl-1-propene, 4- (phenylamino)phenylimide
Benzenesulfonic acid, methyl-, mono-C20-C26-branched alkyl derivs., calcium salts
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts
Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water//

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 1)

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate

List according to Article 59 of REACH.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
EINECS: 276-738-4	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ⚠ Asp. Tox. 1, H304	20-<25%
CAS: 68784-26-9 EC number: 701-251-5	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased Aquatic Chronic 4, H413	1-<5%
CAS: 125643-61-0 ELINCS: 406-040-9	A mixture of isomers of: C7-9-alkyl-3-(3,5-di-trans-butyl-4-hydroxyphenyl) propionate Aquatic Chronic 4, H413	1-<5%
EINECS: 253-249-4	bis(nonylphenyl)amine Aquatic Chronic 4, H413	1-<5%
EINECS: 272-238-5	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411	1-<5%
	2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane (2-aminopropyl) ether and 2-methyl-1-propene, 4- (phenylamino) phenylimide ⚠ Skin Sens. 1, H317	1-<5%
	Benzenesulfonic acid, methyl-, mono-C20-C26-branched alkyl derivs., calcium salts ⚠ Skin Sens. 1, H317; Aquatic Chronic 4, H413	<1.0%
	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts ⚠ Skin Sens. 1, H317	<1.0%
EC number: 806-731-9	Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol ⚠ Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	<1.0%
CAS: 121158-58-5 EC number: 310-154-3	phenol, dodecyl-, branched ⚠ Repr. 1B, H360F; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%

Additional information:

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. For the wording of the listed hazard phrases refer to section 16.

GB

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 2)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately.
Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing:

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect).

Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

If swallowed or vomited, danger of entering the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Sand. Foam. Carbon dioxide (CO₂).Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

When burning strong soot development

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂) Sulphur dioxide (SO₂) Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.
Avoid contact with skin, eyes and clothes.
Avoid formation of oil dust.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 4)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 3)

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes.
Do not breathe vapors or spray mist.
Wear suitable protective clothing.
Avoid formation of oil dust.
Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Fire class B

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep container tightly closed in a dry, cool and well-ventilated place.
Use only receptacles specifically permitted for this substance/product.

Information about storage in one common storage facility:

Do not store together with: Gas. Explosives. Oxidizing substances.

Further information about storage conditions:

Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.

Storage class: 10

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

125643-61-0 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Worker DNEL, long-term inhalation systemic:	3,0 mg/m ³
Worker DNEL, long-term dermal systemic:	8,6 mg/kg bw/day
Consumer DNEL, long-term inhalation systemic:	0,76 mg/m ³
Consumer DNEL, long-term dermal systemic:	4,3 mg/kg bw/day
Consumer DNEL, long-term oral systemic:	0,43 mg/kg bw/day

68784-31-6 Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts

Worker DNEL, long-term inhalation systemic:	2.93 mg/m ³
Worker DNEL, acute inhalation systemic:	496.4 mg/m ³
Worker DNEL, long-term dermal systemic:	10.42 mg/kg bw/day
Worker DNEL, acute dermal systemic:	100 mg/kg bw/day
Consumer DNEL, long-term inhalation systemic:	11.75 mg/m ³
Consumer DNEL, acute inhalation systemic:	198.6 mg/m ³
Consumer DNEL, long-term dermal systemic:	2.1 mg/kg bw/day
Consumer DNEL, acute dermal systemic:	50 mg/kg bw/day

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 4)

Consumer DNEL, long-term oral systemic: 0.21 mg/kg bw/day
Consumer DNEL, acute oral systemic: 29 mg/kg bw/day

36878-20-3 Bis(nonylphenyl)amine
Worker DNEL, acute dermal systemic: 5 mg/kg bw/day

68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased
Worker DNEL, long-term dermal systemic: 0,5 mg/kg bw/day
Worker DNEL, long-term inhalation systemic: 3,5 mg/m³
Worker DNEL, acute inhalation systemic: 133,6 mg/m³
Worker DNEL, acute dermal systemic: 80 mg/kg bw/day
Consumer DNEL, long-term inhalation systemic: 0,87 mg/m³
Consumer DNEL, acute inhalation systemic: 0,067 mg/m³
Consumer DNEL, acute dermal systemic: 40 mg/kg bw/day
Consumer DNEL, acute oral systemic: 50 mg/kg bw/day
Consumer DNEL, long-term oral systemic: 0,25 mg/kg bw/day

1428353-74-5
Coconut oil, reaction products with boric acid (H₃BO₃), diethanolamine and glycerol
Worker DNEL, long-term inhalation systemic: 0.8 mg/m³
Worker DNEL, long-term dermal systemic: 1.1 mg/kg bw/day
Consumer DNEL, long-term inhalation systemic: 0.2 mg/m³
Consumer DNEL, long-term dermal systemic: 0.6 mg/kg bw/day
Consumer DNEL, long-term oral systemic: 0.1 mg/kg bw/day

121158-58-5
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched;
phenol, 4-dodecyl-, branched
Worker DNEL, long-term inhalation systemic: 1.762 mg/m³
Worker DNEL, long-term dermal systemic: 0.25 mg/kg bw/day
Consumer DNEL, long-term inhalation systemic: 0.79 mg/m³
Consumer DNEL, long-term dermal systemic: 0.075 mg/kg bw/day
Consumer DNEL, long-term oral systemic: 0.075

PNECs

125643-61-0
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate
Freshwater sediment: 0,37 mg/kg
Marine sediment: 0,037 mg/kg
Micro-organisms in sewage treatment plants (STP): 10 mg/l
Soil: 0,632 mg/kg

68784-31-6
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts
Freshwater: 0,04 mg/l
Marine water: 0,0046 mg/l
Freshwater sediment: 0,07 mg/kg
Marine sediment: 0,007 mg/kg
Secondary poisoning: 8,33 mg/kg
Micro-organisms in sewage treatment plants (STP): 3,8 mg/l
Soil: 0,055 mg/kg

36878-20-3
Bis(nonylphenyl)amine
Freshwater: 0,1 mg/l
Freshwater (intermittent releases): 1 mg/l
Marine water: 0,01 mg/l
Marine water (intermittent releases): 13200 mg/kg
Freshwater sediment: 132000 mg/kg
Micro-organisms in sewage treatment plants (STP): 1 mg/l
Soil: 263000 mg/kg

(Contd. on page 6)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 5)

68784-26-9

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Freshwater:	0,5 mg/l
Freshwater (intermittent releases):	5 mg/l
Marine water:	0,04 mg/l
Freshwater sediment:	43500 mg/kg
Marine sediment:	3480 mg/kg
Secondary poisoning:	13,333 mg/kg
Micro-organisms in sewage treatment plants (STP):	100 mg/l
Soil:	8850 mg/kg

1428353-74-5

Coconut oil, reaction products with boric acid (H₃BO₃), diethanolamine and glycerol

Freshwater:	0.007 mg/l
Marine water:	0.001 mg/l
Freshwater sediment:	16.74 mg/kg
Marine sediment:	1.67 mg/kg
Micro-organisms in sewage treatment plants (STP):	10 mg/l
Soil:	13.59 mg/kg

121158-58-5

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched;
phenol, 4-dodecyl-, branched

Freshwater (intermittent releases):	0,000074 mg/l
Marine water:	0,000074 mg/l
Freshwater sediment:	0,26 mg/kg
Marine sediment:	0,026 mg/kg
Soil:	0,118 mg/kg

Additional Occupational Exposure Limit Values for possible hazards during processing:

Air limit values:

Possibility of exposure to Aerosol (Mineral oil)

Limit value (TLV-TWA) = 5 mg/ m³ - Source: ACGIH

Limit value (TLV-STEL) = 10 mg/ m³ - Source: ACGIH

STEL: short-term exposure limits

TLV: Threshold Limiting Value

TWA: time weighted average

ACGIH: American Conference of Governmental Industrial Hygienists

Additional information: The safety data sheet of the pre-supplier served as the basis for the creation.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Provide adequate ventilation.

Contaminated work clothing should not be allowed out of the workplace.

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at:

-aerosol or mist formation

-exceeding exposure limit values.

Recommended filter type: A2, A2P2, ABEK

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: **CLASSIC MEDUNA LT 1040 LA PLUS**

(Contd. of page 6)

Protection of hands:

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 347/EN 388.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile

Neoprene

Viton

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

EN 166

Body protection: Heavy flammable, oil-repellent protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Clear
Odour:	-
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

Flash point: 234 °C

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

(Contd. on page 8)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: **CLASSIC MEDUNA LT 1040 LA PLUS**

(Contd. of page 7)

Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 15 °C:	0.8679 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Immiscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 40 °C:	100.5 mm ² /s
Solvent content:	
VOC (EC)	0.00 %
9.2 Other information	Pour point: -42 °C

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: Materials to avoid: Strong oxidizing agents

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

72623-87-1

Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

LD50: >5000 mg/kg Rat (OECD 401) oral ECHA Dossier

LD50: >2000 mg/kg Rabbit (OECD 402) dermal ECHA Dossier

LC50: >5,53 mg/l Rat (OECD 403) inhalation (4 h) aerosol ECHA Dossier

125643-61-0

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

LD50: > 2000 mg/kg Rat oral ECHA Dossier OECD 401

LD50: > 2000 mg/kg Rat dermal ECHA Dossier OECD 402

68784-31-6

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts

LD50: >2000 mg/kg Rat. oral ECHA Dossier OECD Guideline 401

LD50: >5000 mg/kg Rabbit dermal ECHA Dossier OECD Guideline 402

36878-20-3

Bis(nonylphenyl)amine

LD50: >5000 mg/kg Rat oral ECHA Dossier

(Contd. on page 9)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 8)

68784-26-9

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

LD50: > 5000 mg/kg Rat oral ECHA Dossier OECD Guideline 401

LD50: > 4000 mg/kg Rabbit dermal ECHA Dossier OECD Guideline 402

1428353-74-5

Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol

LD50: >2000 mg/kg Rat oral OECD Guideline 423

LD50: >2000 mg/kg Rat dermal OECD Guideline 402

121158-58-5

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched;

phenol, 4-dodecyl-, branched

LD50: 2100 mg/kg Rat oral ECHA Dossier OECD 401

LD50: 15000 mg/kg Rabbit dermal ECHA Dossier OECD 402

Primary irritant effect:

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts:

Irritant effect on the eye: Not an irritant. By analogy. Raw material classification

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction. (2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4- (phenylamino)phenylimide; Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol; Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts; Benzenesulfonic acid, methyl-mono-C20-26-branched alkyl

derivs., calcium salts)

May cause sensitisation by skin contact.

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test);

Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 453

(Combined Chronic Toxicity / Carcinogenicity Studies); Species: Mouse; Result: Non-carcinogenic if DMSO

extract as measured by IP346 is less than 3% w/w.; Literature information: ECHA Dossier; Reproductive

toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity

Screening Test); Result: NOAEL > 1000 mg/kg; Literature information: ECHA Dossier; Developmental

toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL ≥ 2000 mg/kg; Literature information: ECHA Dossier

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts:

Subacute oral toxicity: Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents);

Species: Rat; Exposure duration: 28 d; Results: NOAEL = 125mg/kg; Literature information: ECHA Dossier

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat; Result: NOAEL = 200 mg/kg; Literature information: ECHA Dossier; Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD

Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative. ; Literature information: ECHA

Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study).

Species: Rat.; Result: NOAEL = 50 mg/kg. Literature information: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:

In vitro mutagenicity/genotoxicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test), OECD

Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier;

Developmental toxicity/teratogenicity: Species: Rat ; Method: OECD Guideline 414 (Prenatal Developmental

Toxicity Study); Result: NOAEL 100 mg/kg; Literature information: ECHA Dossier; Reproductive toxicity:

Species: Sprague-Dawley Rat ; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity

(Contd. on page 10)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 9)

Study); Result: NOAEL 15 mg/kg; Literature information: ECHA Dossier
Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol
Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study);
Species: Rat; Results: NOAEL = 1000 mg/kg; Literature information: ECHA Dossier
Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol:
In-vitro mutagenicity: Method: in vitro gene mutation study in bacteria, OECD Guideline 476 (In vitro
Mammalian Cell Gene Mutation Test), OECD Guideline 473 (In vitro Mammalian Chromosome Aberration
Test); Method: negative. ; Literature information: ECHA Dossier
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure
Based on available data, the classification criteria are not met.
Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:
Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m3;
Literature information: ECHA Dossier; Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated
Dose
Dermal Toxicity: 21/28-Day Study); Exposure time: 28d; Species: Rabbit; Results: 1000 mg/kg; Literature
information: ECHA Dossier
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts:
In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. ;
Literature information: ECHA Dossier
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:
Subacute oral toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study);
Species: Dog.; Exposure duration: 28 d. Results: NOAEL >250 mg/kg(bw)/day ; Literature information: ECHA
Dossier
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-,
branched:
Subchronic oral toxicity: Exposure time: 90d. Method: OECD Guideline 408 ; Species: Rat; Results: NOAEL =
100 mg/kg. Subacute oral toxicity: Exposure time: 28d. Method: OECD Guideline 407 ; Species: Rat ; Results:
NOAEL = 60 mg/kg. Literature information: ECHA Dossier
Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment (H410, H411, H412) . Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment (H410, H 411) on the basis of test data, expert judgement or analogy assessments.

125643-61-0

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Acute fish toxicity	LC50	>100 mg/l	96 h	ECHA Dossier	Brachydanio rerio	OECD 203
---------------------	------	-----------	------	--------------	-------------------	----------

Acute crustacea toxicity	EC50	>100 mg/l	48 h	ECHA Dossier	Daphnia magna	OECD 202
--------------------------	------	-----------	------	--------------	---------------	----------

68784-31-6

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts

Acute fish toxicity	LC50 LL50	4,4 mg/l	96 h	ECHA Dossier	Oncorhynchus mykiss	OECD Guideline 203
---------------------	-----------	----------	------	--------------	---------------------	--------------------

Acute algae toxicity	ErC50 EL50	410 mg/l	72 h	ECHA Dossier	Desmodesmus subspicatus	OECD Guideline 201
----------------------	------------	----------	------	--------------	-------------------------	--------------------

(Contd. on page 11)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 10)

Acute crustacea toxicity EC50 EL50 48 h ECHA Dossier
75 mg/l Daphnia magna OECD Guideline 202

Crustacea toxicity NOEC
0,4 mg/l 21 d Daphnia magna ECHA Dossier OECD Guideline 211

36878-20-3
Bis(nonylphenyl)amine

Acute fish toxicity LC50
>100 mg/l 96 h ECHA Dossier Brachydanio rerio (new name: Danio rerio) (OECD 20)
Acute crustacea toxicity EC50
>100 mg/l 48 h ECHA Dossier Daphnia magna (OECD 202)

68784-26-9
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Acute fish toxicity LC50 LL50 96 h ECHA Dossier
>1000 mg/l Pimephales promelas OECD Guideline 203

Acute algae toxicity 96 h Study report (1994)
ErC50 > 500 mg/l Pseudokirchneriella subcapitata OECD Guideline 201

Acute crustacea toxicity 48 h Study report (1993)
EC50 > 1000 mg/l Daphnia magna OECD Guideline 202

1428353-74-5
Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol

Acute fish toxicity LC50 LL50 96 h
10,2 mg/l Oncorhynchus mykiss OECD Guideline 203

Acute algae toxicity ErC50 7,4 mg/l 72 h
Desmodesmus subspicatus OECD Guideline 201

Acute crustacea toxicity EC50 EL50 4mg/l 48 h
Daphnia magna OECD Guideline 202

Fish toxicity NOEC 0,32 mg/l 28 d
Oncorhynchus mykiss OECD Guideline 204

Crustacea toxicity NOEC 0,07 mg/l 21 d
Daphnia magna OECD Guideline 211

121158-58-5
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched

Acute fish toxicity LC50 EL 50 96 h ECHA Dossier
40 mg/l Pimephales promelas

Acute algae toxicity ErC50
(0,36)mg/L 72 h ECHA Dossier Desmodesmus subspicatus

(Contd. on page 12)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 11)

Crustacea toxicity NOEC
0,0037 mg/l 21 d daphnia magna (OECD 211) ECHA Dossier

12.2 Persistence and degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Other information:

72623-87-1

Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C

2-4% 28d ECHA Dossier

Not easily bio-degradable (according to OECD-criteria).

125643-61-0

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C

4 % 28d ECHA Dossier

Not easily bio-degradable (according to OECD-criteria).

68784-31-6

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts

EU Method C.6

< 5% 27d ECHA Dossier

Easily biodegradable (concerning to the criteria of the OECD)

36878-20-3

Bis(nonylphenyl)amine

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C

1% 28d ECHA Dossier

Not easily bio-degradable (according to OECD-criteria).

68784-26-9

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C (READ ACROSS)

13,4 % 28d ECHA Dossier

Not easily bio-degradable (according to OECD-criteria).

1428353-74-5

Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol

OECD Guideline 301 F

87% 28d ECHA Dossier

Easily biodegradable (concerning to the criteria of the OECD)

121158-58-5

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C

25% 28d ECHA Dossier

Not easily bio-degradable (according to OECD-criteria).

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No Chemical name

125643-61-0 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Log Pow: 9,2

(Contd. on page 13)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: **CLASSIC MEDUNA LT 1040 LA PLUS**

(Contd. of page 12)

68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased
Log Pow: 9,5
121158-58-5 phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched;
phenol, 4-dodecyl-, branched
Log Pow: 7,1

BCF

68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased
BCF: 2,2; Species: lipid triolein; ECHA Dossier
121158-58-5 phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol,
3-dodecyl-, branched; phenol,4-dodecyl-, branched
BCF: 2,9

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Dispose of waste according to applicable legislation.

European waste catalogue

15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP14	Ecotoxic

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA not regulated

14.2 UN proper shipping name

ADR, IMDG, IATA not regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class not regulated

14.4 Packing group

ADR, IMDG, IATA not regulated

14.5 Environmental hazards:

Not applicable.

(Contd. on page 14)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: **CLASSIC MEDUNA LT 1040 LA PLUS**

(Contd. of page 13)

14.6 Special precautions for user	Not applicable.
--	-----------------

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
--	-----------------

UN "Model Regulation":	not regulated
-------------------------------	---------------

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category Not subject to 2012/18/EU (SEVESO III)

REGULATION (EC) No 1907/2006 ANNEX XVII

Restrictions on use (REACH, annex XVII):

Entry 30: phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched

Conditions of restriction: 3

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H360F May damage fertility.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Department issuing SDS: Department Product Safety

Contact: Produktmanagement

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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

(Contd. on page 15)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2020

Revision: 14.04.2020

Trade name: CLASSIC MEDUNA LT 1040 LA PLUS

(Contd. of page 14)

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 1B: Reproductive toxicity – Category 1B
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

Sources The safety data sheet of the pre-supplier served as the basis for the creation.

GB