

Safety Data Sheet

ASTRON Galaxy LSPi 5W-30

Revision date: 05.08.2025

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

1.1. Product identifier

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

Use of the substance/mixture

Motor oil multigrade

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Duran Lubricants & Chemicals GmbH	
Street:	Rodderheide 3-7	
Place:	D-33824 Werther	
Telephone:	+49 (0)5203-901510	
e-mail:	info@duran-oil.com	
Internet:	www.fosser.de	
Responsible Department:	Produktsicherheit / Product Safety	
	info@duran-oil.com	

Fax: +49 (0)5203-901515

1.4. Emergency telephone number:

Gifteinformationszentrum Nord
(Göttingen)+49 (0)551/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Eye Irrit. 2; H319
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Warning

Pictograms:



Hazard statements

H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents / container in accordance with official regulations.

Special labelling of certain mixtures

EUH208 Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts
 , Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

2.3. Other hazards

Endocrine disrupting properties: phenol, dodecyl-, branched.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			49 - < = 95 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate			1 - < = 3.2 %
	406-040-9	607-530-00-7	01-0000015551-76	
	Aquatic Chronic 4; H413			
68442-22-8	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts			0 - < = 1.28 %
	270-478-5		01-2119948548-22	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			
68784-26-9	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased			0 - < = 1.28 %
	272-234-3		01-2119524004-56	
	Aquatic Chronic 4; H413			
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts			0 - < = 0.39 %
	271-529-4		01-2119492627-25	
	Skin Sens. 1B; H317			
61789-86-4	Sulfonic acids, petroleum, calcium salts			0 - < = 0.39 %
	263-093-9		01-2119488992-18	
	Skin Sens. 1B; H317			
121158-58-5	phenol, dodecyl-, branched			0 - < = 0.03839 %
	310-154-3	604-092-00-9	01-2119513207-49	
	Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
		Specific Conc. Limits, M-factors and ATE		
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	49 - < = 95 %	
		inhalation: LC50 = 5,53 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg		
125643-61-0	406-040-9	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	1 - < = 3.2 %	
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
68442-22-8	270-478-5	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	0 - < = 1.28 %	
		dermal: LD50 = > 2002 mg/kg; oral: LD50 = > 2000 - < 5000 mg/kg		
68584-23-6	271-529-4	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	0 - < = 0.39 %	
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 16000 mg/kg		
61789-86-4	263-093-9	Sulfonic acids, petroleum, calcium salts	0 - < = 0.39 %	
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 16000 mg/kg		
121158-58-5	310-154-3	phenol, dodecyl-, branched	0 - < = 0.03839 %	
		dermal: LD50 = ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10		

Further Information

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: phenol, dodecyl-, branched

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove person to fresh air and keep comfortable for breathing.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

Take off contaminated clothing and wash it before reuse.

In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth thoroughly with water.

Let water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- alcohol resistant foam
- Carbon dioxide (CO2).
- Extinguishing powder
- Water mist

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Carbon monoxide (CO)
- Carbon dioxide (CO2).
- Nitrogen oxides (NOx)
- Pyrolysis products, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use of protective clothing

In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep people at a distance and stay on the windward side.

Special danger of slipping by leaking/spilling product.

For non-emergency personnel

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Remove from the water surface (e.g. skimming, sucking).

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6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of oil dust.

Use personal protection equipment.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Clear spills immediately.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Keep only in the original container. Store in a cool dry place. (Protect from moisture.)

Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions
- Explosives

7.3. Specific end use(s)

Motor oil multigrade

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
DNEL type				
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Worker DNEL, long-term	inhalation	systemic	2,73 mg/m ³	
Worker DNEL, long-term	inhalation	local	5,58 mg/m ³	
Worker DNEL, long-term	dermal	systemic	0,97 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	local	1,19 mg/m ³	
Consumer DNEL, long-term	oral	systemic	0,74 mg/kg bw/day	
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate			
Worker DNEL, long-term	dermal	systemic	1,67 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	1,62 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	0,83 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,93 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	6,6 mg/m ³	
68442-22-8	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts			
Worker DNEL, long-term	inhalation	systemic	8,05 mg/m ³	
Worker DNEL, long-term	dermal	systemic	11,4 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	1,98 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	5,71 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,24 mg/kg bw/day	
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts			
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m ³	
Worker DNEL, long-term	dermal	systemic	3,33 mg/kg bw/day	
Worker DNEL, long-term	dermal	local	1,03 mg/cm ²	
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	1,667 mg/kg bw/day	
Consumer DNEL, long-term	dermal	local	0,513 mg/cm ²	
Consumer DNEL, long-term	oral	systemic	0,833 mg/kg bw/day	
61789-86-4	Sulfonic acids, petroleum, calcium salts			
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m ³	
Worker DNEL, long-term	dermal	systemic	3,33 mg/kg bw/day	
Worker DNEL, long-term	dermal	local	1,03 mg/cm ²	
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m ³	

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Consumer DNEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,513 mg/cm ²
Consumer DNEL, long-term	oral	systemic	0,833 mg/kg bw/day
121158-58-5 phenol, dodecyl-, branched			
Worker DNEL, acute	inhalation	systemic	44,18 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,25 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	166 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,79 mg/m ³
Consumer DNEL, acute	inhalation	systemic	13,26 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,075 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,075 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	1,26 mg/kg bw/day

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PNEC values

CAS No	Substance	
	Environmental compartment	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
125643-61-0	Secondary poisoning reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	9,33 mg/kg
	Freshwater	0,018 mg/l
	Freshwater (intermittent releases)	0,018 mg/l
	Marine water	0,002 mg/l
	Freshwater sediment	2 mg/kg
	Marine sediment	0,2 mg/kg
	Secondary poisoning	41,33 mg/kg
	Micro-organisms in sewage treatment plants (STP)	100 mg/l
	Soil	10 mg/kg
68442-22-8	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	
	Freshwater	0,004 mg/l
	Freshwater (intermittent releases)	0,045 mg/l
	Marine water	0,0046 mg/l
	Freshwater sediment	0,045 mg/kg
	Marine sediment	0,005 mg/kg
	Secondary poisoning	10,67 mg/kg
	Micro-organisms in sewage treatment plants (STP)	100 mg/l
	Soil	0,007 mg/kg
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	
	Freshwater	1 mg/l
	Freshwater (intermittent releases)	10 mg/l
	Marine water	1 mg/l
	Freshwater sediment	226000000 mg/kg
	Marine sediment	226000000 mg/kg
	Secondary poisoning	16,667 mg/kg
	Micro-organisms in sewage treatment plants (STP)	1000 mg/l
	Soil	271000000 mg/kg
61789-86-4	Sulfonic acids, petroleum, calcium salts	
	Freshwater	1 mg/l
	Freshwater (intermittent releases)	10 mg/l
	Marine water	1 mg/l
	Freshwater sediment	226000000 mg/kg
	Marine sediment	226000000 mg/kg
	Secondary poisoning	16,667 mg/kg
	Micro-organisms in sewage treatment plants (STP)	1000 mg/l

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Soil	271000000 mg/kg
121158-58-5 phenol, dodecyl-, branched	
Freshwater	0,000074 mg/l
Freshwater (intermittent releases)	0,00037 mg/l
Marine water	0,000007 mg/l
Freshwater sediment	0,226 mg/kg
Marine sediment	0,027 mg/kg
Secondary poisoning	4 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	0,118 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	yellowbrown
Odour:	characteristic
Odour threshold:	not determined
pH-Value:	not applicable

Changes in the physical state

Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Pour point:	No data available
Flash point:	242 °C

Explosive properties

The product is not: Explosive. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits:	No data available
Upper explosion limits:	No data available

Oxidizing properties

The product is not: oxidising.

Vapour pressure:	No data available
Density (at 15 °C):	0.852 g/cm³
Water solubility:	Immiscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	No data available
Viscosity / dynamic:	No data available
Viscosity / kinematic: (at 40 °C)	72 mm²/s

9.2. Other information

Solid content:	not applicable
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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

10.4. Conditions to avoid

Conditions to avoid: Thermal decomposition

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10.5. Incompatible materials

Materials to avoid:

- Oxidizing agent
- Reducing agent
- Acids

10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂).
- Nitrogen oxides (NO_x)
- Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
	oral	LD50 mg/kg	> 5000 Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 mg/kg	> 5000 Rabbit	Study report (1982)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 5,53 mg/l	Rat		OECD Guideline 403
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate				
	oral	LD50 mg/kg	> 2000 Rat	Study report (2005)	OECD Guideline 423
	dermal	LD50 mg/kg	> 2000 Rat	Study report (2000)	OECD Guideline 402
68442-22-8	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts				
	oral	LD50 < 5000 mg/kg	> 2000 - Rat	Study report (1983)	other: Section 1500.3 – Federal Hazardou
	dermal	LD50 mg/kg	> 2002 Rat	Study report (1985)	OECD Guideline 402
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts				
	oral	LD50 mg/kg	> 16000 Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 mg/kg	> 5000 Rabbit	Study report (1981)	OECD Guideline 402
61789-86-4	Sulfonic acids, petroleum, calcium salts				
	oral	LD50 mg/kg	> 16000 Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 mg/kg	> 5000 Rabbit	Study report (1981)	OECD Guideline 402
121158-58-5	phenol, dodecyl-, branched				
	oral	LD50 mg/kg	2100 Rat	Publication (1978)	OECD Guideline 401
	dermal	LD50 mg/kg	ca. 15000 Rabbit	Study report (1968)	OECD Guideline 402

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts

, Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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.

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STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

See section 12.6

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate					
	Acute fish toxicity	LC50 mg/l	> 0,001	96 h	Oncorhynchus mykiss	Study report (2009)
	Acute algae toxicity	ErC50	> 0 mg/l	72 h	Desmodesmus subspicatus	Study report (2009)
	Acute crustacea toxicity	EL50	110 mg/l	48 h	Daphnia magna	Study report (2000)
	Fish toxicity	NOEC mg/l	0,36	33 d	Pimephales promelas	Study report (2009)
	Crustacea toxicity	NOEC	3,2 mg/l	21 d	Daphnia magna	Study report (2010)
	Acute bacteria toxicity	EC50 mg/l ()	> 1000	3 h	activated sludge of a predominantly domestic sewage	Study report (2000)
68442-22-8	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts					
	Acute fish toxicity	LL50	4,5 mg/l	96 h	Oncorhynchus mykiss	Study report (2005)
	Acute algae toxicity	ErC50	21 mg/l	72 h	Desmodesmus subspicatus	Study report
	Acute crustacea toxicity	EL50	23 mg/l	48 h	Daphnia magna	Study report (2005)
	Crustacea toxicity	NOEC	0,4 mg/l	21 d	Daphnia magna	Study report (2010)
	Acute bacteria toxicity	EC50 mg/l ()	> 10000	3 h	activated sludge of a domestic residential sewage	Study report (1994)
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts					
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Study report (1994)
	Acute bacteria toxicity	EC50 mg/l ()	> 10000	3 h	activated sludge of a predominantly domestic sewage	Study report (1994)
61789-86-4	Sulfonic acids, petroleum, calcium salts					
	Acute fish toxicity	LL50 mg/l	> 10000	96 h	Cyprinodon variegatus	Study report (1986)
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Study report (1994)
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1993)

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	Acute bacteria toxicity	EC50 mg/l ()	> 10000	3 h	activated sludge of a predominantly domestic sewage	Study report (1994)	OECD Guideline 209
121158-58-5	phenol, dodecyl-, branched						
	Acute fish toxicity	LL50 mg/l	40 mg/l	96 h	Pimephales promelas	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	0,15	72 h	Desmodesmus subspicatus	Study report (2005)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,037	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,0037	21 d	Daphnia magna (Big water flea)	ECHA Dossier	
	Crustacea toxicity	NOEC mg/l	0,004	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ()	> 1000	3 h	activated sludge of a predominantly industrial sewage	Study report (2004)	OECD Guideline 209

12.2. Persistence and degradability

No data available

CAS No	Chemical name	Method	Value	d	Source
	Evaluation				
121158-58-5	phenol, dodecyl-, branched	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	25%	28	
	Not readily biodegradable (according to OECD criteria)				

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68442-22-8	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	1,67
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	> 4,46
61789-86-4	Sulfonic acids, petroleum, calcium salts	> 4,46
121158-58-5	phenol, dodecyl-, branched	7,14

BCF

CAS No	Chemical name	BCF	Species	Source
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	38	Cyprinus carpio	Study report (2002)
121158-58-5	phenol, dodecyl-, branched	289	Oncorhynchus mykiss	Study report (2006)

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Endocrine disrupting properties: phenol, dodecyl-, branched.

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12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

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EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
phenol, dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 75

Directive 2004/42/EC on VOC in
paints and varnishes: 0.038 % (0.327 g/l)

Information according to Directive
2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

EC/EEC: European Community/European Economic Community

EU: European Union

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

M-factor: Multiplying factor

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: volatile organic compound

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SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts , Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)