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

1.1. Product identifier

SRS Wiolan HF 32 DB

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

Use of the substance/mixture

gear oil

Uses advised against

none

1.3. Details of the supplier of the safety data sheet

Company name:	SRS Schmierstoff Vertrieb GmbH
Street:	Neuenkirchener Straße 8
Place:	D-48497 Salzbergen
Telephone:	05976 - 945-0
Responsible Department:	Abt. Produktsicherheit: info.reach@srs-oil.de

1.4. Emergency telephone number:

Gift-Informationszentrum Nord (Göttingen) - Telefon 0551-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container to local/regional/national/international regulations.

2.3. Other hazards

This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

For information or further instructions, see also section 11 or 12.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified			10 - < 12 %
	276-738-4	649-483-00-5	01-2119474889-13	
	Asp. Tox. 1; H304			
	Mineral Oil (64742-54-7, 64742-65-0, 64742-55-8, 64742-56-9)			1 - < 3 %

	Asp. Tox. 1; H304			
128-39-2	2,6-di-tert-butylphenol			0.3 - < 0.5 %
	204-884-0		01-2119490822-33	
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H315 H400 H410			
104-76-7	2-ethylhexan-1-ol**			< 0.1 %
	203-234-3		01-2119487289-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H315 H319 H335			
108-88-3	toluene**			< 0.1 %
	203-625-9	601-021-00-3		
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304			
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol**			< 0.1 %
	203-632-7	604-001-00-2		
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, STOT RE 2; H341 H331 H311 H301 H314 H373			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
72623-87-1	276-738-4	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	10 - < 12 %
	inhalation: LC50 = >5,53 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg		
128-39-2	204-884-0	2,6-di-tert-butylphenol	0.3 - < 0.5 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg		
104-76-7	203-234-3	2-ethylhexan-1-ol**	< 0.1 %
	inhalation: LC50 = [0,89] mg/l (vapours); inhalation: LC50 = [>0,89-5,3] mg/l (dusts or mists); oral: LD50 = 2047 mg/kg		
108-88-3	203-625-9	toluene**	< 0.1 %
	inhalation: LC50 = > 20 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5580 mg/kg		
108-95-2	203-632-7	phenol; carbolic acid; monohydroxybenzene; phenylalcohol**	< 0.1 %
	inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = [>0,9] mg/l (dusts or mists); dermal: LD50 = 660 mg/kg; oral: LD50 = 282 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eye Irrit. 2; H319: >= 1 - < 3		

Further Information

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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).

*The mineral oil can be described by one or more EINECS numbers. 265-157-1, 265-169-7, 265-158-7, 265-159-2, (REACH-no.: 01-2119484627-25, 01-2119471299-27, 01-2119487077-29, 01-2119480132-48)

**Substance for which a community occupational exposure limit value applies in the European Union.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. 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 immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

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

After ingestion

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 in the event of vomiting, risk of entering the lungs.

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

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

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO2) Sulphur dioxide (SO2) Nitrogen oxides (NOx)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special precautionary measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. 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.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)
Avoid formation of oil dust.

Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.
Fire class B

Advice on general occupational hygiene

Clean skin thoroughly after working.
Do not put any product-impregnated cleaning rags into your trouser pockets.

Further information on handling

Do not breathe vapour/aerosol.
Avoid contact with eyes and skin.
General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Hints on joint storage

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

Further information on storage conditions

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

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
104-76-7	2-Ethylhexan-1-ol	1	5.4		TWA (8 h)	
108-95-2	Phenol	2	8		TWA (8 h)	

		4	16		STEL (15 min)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m³
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	5,58 mg/m³
Consumer DNEL, long-term		inhalation	local	1,19 mg/m³
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
128-39-2	2,6-di-tert-butylphenol			
Worker DNEL, long-term		dermal	systemic	11,25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	70,61 mg/m³
Consumer DNEL, long-term		inhalation	systemic	20,9 mg/m³
Consumer DNEL, long-term		oral	systemic	6,75 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6,75 mg/kg bw/day
104-76-7	2-ethylhexan-1-ol**			
Worker DNEL, long-term		inhalation	systemic	12,8 mg/m³
Worker DNEL, long-term		inhalation	local	53,2 mg/m³
Worker DNEL, long-term		dermal	systemic	23 mg/kg bw/day
Worker DNEL, acute		inhalation	local	53,2 mg/m³
Consumer DNEL, long-term		inhalation	systemic	2,3 mg/m³
Consumer DNEL, long-term		inhalation	local	26,6 mg/m³
Consumer DNEL, acute		inhalation	local	26,6 mg/m³
Consumer DNEL, long-term		dermal	systemic	11,4 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,1 mg/kg bw/day

PNEC values

CAS No	Name of agent	
Environmental compartment		Value
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
128-39-2	2,6-di-tert-butylphenol	
Freshwater		0.001 mg/l
Freshwater (intermittent releases)		0.004 mg/l
Marine water		0.0001 mg/l
Freshwater sediment		0,317 mg/kg

Marine sediment	0,0317
Secondary poisoning	60 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,679 mg/kg
104-76-7	2-ethylhexan-1-ol**
Freshwater	0,017 mg/l
Freshwater (intermittent releases)	0,17 mg/l
Marine water	0,002 mg/l
Freshwater sediment	0,284 mg/kg
Marine sediment	0,028 mg/kg
Secondary poisoning	55 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,047 mg/kg

Additional advice on limit values

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

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety goggles with side protection. In case of increased risk add protective face shield. EN 166

Hand protection

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 374/EN 388.
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.
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.
Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.
In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Oil-resistant and hardly inflammable protective clothing.

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
Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	No information available.	
Odour:	characteristic	
		Test method
Melting point/freezing point:	No information available.	
Boiling point or initial boiling point and boiling range:	No information available.	
Flammability:	No information available.	
Lower explosion limits:	No information available.	
Upper explosion limits:	No information available.	
Flash point:	228 °C	DIN ISO 2592
Auto-ignition temperature:	No information available.	
Decomposition temperature:	No information available.	
pH-Value:	No information available.	
Viscosity / kinematic: (at 40 °C)	31,6 mm²/s	DIN EN ISO 3104
Water solubility:	No information available.	

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water:	No information available.	
Vapour pressure: (at 20 °C)	No information available.	
Vapour pressure: (at 50 °C)	No information available.	
Density (at 15 °C):	0,870 g/cm³	DIN 51757
Bulk density:	No information available.	
Relative vapour density:	No information available.	
Particle characteristics:	No information available.	

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

none

Sustaining combustion:	No data available

Self-ignition temperature

Solid:	No information available.
Gas:	No information available.

Oxidizing properties

none

Other safety characteristics

Evaporation rate:	No information available.
Solvent separation test:	No information available.
Solvent content:	No information available.
Solid content:	No information available.
Sublimation point:	No information available.
Softening point:	No information available.
Pour point:	-42 °C ASTM D 5985
Viscosity / dynamic:	No information available.
Flow time:	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reactions known.
Refer to chapter 10.5.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No information available.

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	OECD 401
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	OECD 402
	inhalation (4 h) dust/mist	LC50 >5,53 mg/l	Rat	ECHA Dossier	OECD 403
128-39-2	2,6-di-tert-butylphenol				

	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	OECD 401
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier	
104-76-7	2-ethylhexan-1-ol**					
	oral	LD50 mg/kg	2047	Rat.	ECHA Dossier	OECD 401
	inhalation (4 h) vapour	LC50 mg/l	[0,89]	Rat.	ECHA Dossier	
	inhalation (4 h) dust/mist	LC50	[>0,89-5,3] mg/l	Rat. (OECD 403)	ECHA Dossier	
108-88-3	toluene**					
	oral	LD50 mg/kg	5580	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier	
	inhalation (4 h) vapour	LC50	> 20 mg/l	Rat	ECHA Dossier	
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol**					
	oral	LD50 mg/kg	282	Mouse.	Horikawa 1975	
	dermal	LD50 mg/kg	660	Rat	ECHA Dossier	OECD Guideline 402
	inhalation vapour	ATE	3 mg/l			
	inhalation (4 h) dust/mist	LC50 mg/l	[>0,9]	Rat	ECHA Dossier	OECD Guideline 403

Irritation and corrosivity

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

Sensitising effects

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

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.
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: REACH 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% m/m.; Literature information: REACH Dossier; Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Result: NOAEL > 1000 mg/kg; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL >= 2000 mg/kg; Literature information: REACH Dossier

2,6-di-tert-butylphenol:
In vitro mutagenicity/genotoxicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test), OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative Literature information: REACH Dossier; During animal experiments no indications of reproductive toxicity were observed. -Screening; Literature information: REACH Dossier

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: REACH 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: REACH Dossier

2,6-di-tert-butylphenol:
Subchronic oral toxicity: Method: OECD Guideline 408; Species: Han Wistar Rat.; Exposure time: 90d. Result: NOAEL > 270 -298mg/kg; Literature information: REACH Dossier

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
128-39-2	2,6-di-tert-butylphenol						
	Acute fish toxicity	LC50	1,4 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50	1,4 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	0,45	48 h	daphnia magna	ECHA Dossier	
	Fish toxicity	NOEC mg/l	0,053	42 d	Oryzias latipes	ECHA Dossier	
	Crustacea toxicity	NOEC mg/l	0,023	21 d	Daphnia magna	ECHA Dossier	
104-76-7	2-ethylhexan-1-ol**						
	Acute fish toxicity	LC50 mg/l	17,1	96 h	Leuciscus idus melanotus	ECHA Dossier	EU Method C.1
	Acute algae toxicity	ErC50 mg/l	11,5	72 h	Desmodesmus subspicatus	ECHA Dossier	EU Method C.3
	Acute crustacea toxicity	EC50	39 mg/l	48 h	Daphnia magna	ECHA Dossier	EU Method C.2
108-88-3	toluene**						
	Acute fish toxicity	LC50	5,5 mg/l	96 h	Oncorhynchus kisutch	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	3.78	48 h	Ceriodaphnia dubia	ECHA Dossier	
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol**						

	Acute fish toxicity	LC50 mg/l	21,93	96 h	Poecilia reticulata	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	61,1	96 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50	3,1 mg/l	48 h	Ceriodaphnia dubia	ECHA Dossier	
	Fish toxicity	NOEC mg/l	0,077	60 d	Cirrhina mrigala	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.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	2-4%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
128-39-2	2,6-di-tert-butylphenol			
	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F	4,5	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
104-76-7	2-ethylhexan-1-ol**			
	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F	>60%	14	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
108-88-3	toluene**			
	other guideline: APHA method No. 219 (1971)	>70%	20	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol**			
	OECD Guideline 301 C	62	5	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
128-39-2	2,6-di-tert-butylphenol	4,5
104-76-7	2-ethylhexan-1-ol**	2,9
108-88-3	toluene**	2,73
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol**	1,47

BCF

CAS No	Chemical name	BCF	Species	Source
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol**	17,5	Danio rerio	ECHA Dossier

12.4. Mobility in soil

No information available.

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.
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No information available.

Further information

Ozone depletion potential (ODP): No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID 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 or ID number:	UN 9006
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es):	9
14.4. Packing group:	-
Hazard label:	-
Classification code:	M12

Marine transport (IMDG)

14.1. UN number or ID 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 or ID 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

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions:	No information available.
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3
Observe in addition any national regulations!

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):	1 - slightly hazardous to water

Additional information

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment
not applicable.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9,12,16.

Rev. : 1,0 - 08.05.2015
Rev. : 1,1 - 20.05.2016
Rev. : 2,0 - 08.06.2017
Rev. : 3,0 - 28.06.2018
Rev.: 4,0 - 27.06.2019
Rev.: 5,0 - 29.06.2020; Changes in chapter: 1.1, 3.2, 15.1, 16
Rev.: 6.0 - 04.06.2021 Changes in chapter: 3.2, 6.1, 6.3, 11.2, 12.6, 12.7, 15.1, 16
Rev.: 7.0 - 14.06.2022, Changes in chapter: 2.3, 3.2, 8.1, 8.2, 11.1, 12,1, 12.2, 12,3,12.5, 12.6, 15.1, 16
Rev.: 8.0 - 01.06.2023, Changes in chapter: 8.1, 9.1, 12.1, 12.7, 14.1, 16
Rev.: 9.0 - 04.06.2024, Changes in chapter: 9.1, 11.7, 12.1,16

Abbreviations and acronyms

Flam. Liq: Flammable liquid
Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Muta: Germ cell mutagenicity
Repr: Reproductive toxicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European LIst of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
WGK: Water Hazard Class (Germany)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:
Health hazards: Calculation method.
Environmental hazards: Calculation method.
Physical hazards: On basis of test data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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