

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Calibration Fluid CV

Revision date: 14.11.2023

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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**Quality control reagent
Industrial uses**Uses advised against**

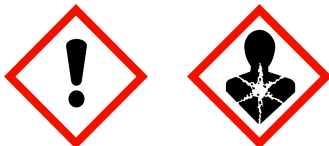
No information available.

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**Asp. Tox. 1; H304
Skin Sens. 1; H317
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)
Distillates (petroleum), hydrotreated middle, Gasoil - unspecified
Polysulfides, di-tert-dodecyl**Signal word:** Danger**Pictograms:****Hazard statements**

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to local/regional/national/international regulations.

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Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

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)			
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)			85 - < 90 %
	920-360-0		01-2119448343-41	
	Asp. Tox. 1; H304 EUH066			
64742-46-7	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert			7 - < 10 %
	265-148-2	649-221-00-X	01-2119489867-12	
	Acute Tox. 4, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2; H332 H315 H304 H411			
68425-15-0	Polysulfides, di-tert-dodecyl			1 - < 3 %
	270-335-7		01-2119540516-41	
	Skin Sens. 1B; H317			
67-56-1	methanol*			< 0.1 %
	200-659-6	603-001-00-X		
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			

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	
	920-360-0	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)	85 - < 90 %
		inhalation: LC50 = >5,28 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = > 4150 mg/kg	
64742-46-7	265-148-2	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert	7 - < 10 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 1,72 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
68425-15-0	270-335-7	Polysulfides, di-tert-dodecyl	1 - < 3 %
		inhalation: LC50 = > 15,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = > 2000 mg/kg	
67-56-1	200-659-6	methanol*	< 0.1 %
		inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = > 1187 - 2769 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10	

Further Information

Note N: The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.

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

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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). Observe risk of aspiration if vomiting occurs. 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. Subsequent observance for pneumonia and lung oedema.

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 (NO_x)

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).

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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.
When using do not eat, drink or smoke.

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/m ³	fib/cm ³	Category	Origin
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67-56-1	Methanol	200	260	TWA (8 h)
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DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
64742-46-7	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert			
Worker DNEL, long-term		inhalation	systemic	16,4 mg/m ³
Worker DNEL, acute		inhalation	systemic	5002,67 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,91 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4,85 mg/m ³
Consumer DNEL, acute		inhalation	systemic	3001,6 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1,25 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,25 mg/kg bw/day
67-56-1	methanol*			
Worker DNEL, acute		inhalation	local	130 mg/m ³
Worker DNEL, long-term		inhalation	local	130 mg/m ³
Worker DNEL, acute		inhalation	systemic	130 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	26 mg/m ³
Consumer DNEL, acute		inhalation	systemic	26 mg/m ³
Worker DNEL, acute		dermal	systemic	20 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	20 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	26 mg/m ³
Consumer DNEL, long-term		dermal	systemic	4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	26 mg/m ³
Consumer DNEL, acute		dermal	systemic	4 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	4 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	130 mg/m ³

PNEC values

CAS No	Name of agent	Value
64742-46-7	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert	
Secondary poisoning		17000 mg/kg
68425-15-0	Polysulfides, di-tert-dodecyl	
Freshwater sediment		3,85 mg/kg
Marine sediment		0,385 mg/kg
Secondary poisoning		66,7 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
67-56-1	methanol*	
Freshwater		20,8 mg/l
Freshwater (intermittent releases)		1540 mg/l
Marine water		2,08 mg/l

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Freshwater sediment	77 mg/kg
Marine sediment	7,7 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	100 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.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: liquid
Colour: clear
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: 104 °C DIN EN ISO 2719
Auto-ignition temperature: No information available.
Decomposition temperature: No information available.
pH-Value: No information available.
Viscosity / kinematic: (at 40 °C) 2,5 mm²/s DIN EN ISO 3104
Water solubility: Immiscible
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): 0,826 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 ISO 3016
Viscosity / dynamic: No information available.
Flow time: No information available.

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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

Toxicokinetics, 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) 112,2 mg/l; ATE (inhalation dust/mist) 17,55 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)				
	oral	LD50 > 4150 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA Dossier	
	inhalation (4 h) dust/mist	LC50 > 5,28 mg/l	Rat	ECHA Dossier	
64742-46-7	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert				
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA Dossier	OECD Guideline 402
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) dust/mist	LC50 1,72 mg/l	Rat.	ECHA Dossier	OECD 403
68425-15-0	Polysulfides, di-tert-dodecyl				
	oral	LD50 > 2000 mg/kg	Rat.	ECHA Dossier	
	dermal	LD50 > 2000 mg/kg	Rabbit.	ECHA Dossier	

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	inhalation (4 h) dust/mist	LC50 > 15,5 mg/l	Rat.	ECHA Dossier	
67-56-1	methanol*				
	oral	LD50 > 1187 - 2769 mg/kg	Rat	ECHA Dossier	
	dermal	ATE 300 mg/kg			
	inhalation (4 h) vapour	LC50 128,2 mg/l	Rat	ECHA Dossier	
	inhalation dust/mist	ATE 0,5 mg/l			

Irritation and corrosivity

Based on available data, the classification criteria are not met.
Repeated exposure may cause skin dryness or cracking.

Sensitising effects

May cause an allergic skin reaction. (Polysulfides, di-tert-dodecyl)

Carcinogenic/mutagenic/toxic effects for reproduction

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

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %):

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test); Result: negative. Literature information: REACH Dossier; Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies); Result: negative. Literature information: REACH Dossier; Reproductive toxicity: Species: Rat; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Result: NOAEL >300 mg/kg; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Species: Rat; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 1000 mg/kg; Literature information: REACH Dossier

Distillates (petroleum), hydrotreated middle, Gasoil - unspecified:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells); Result: negative. Literature information: REACH Dossier; Carcinogenicity:

Method: OECD Guideline 451 (Carcinogenicity Studies); Result: 1101.B110609; Literature information: REACH Dossier; Reproductive toxicity: Species: Rat; Method: OECD Guideline 415 (One-Generation Reproduction Toxicity Study); Result: NOAEL 2000 mg/kg; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Species: Rat; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 4200 mg/kg; Literature information: REACH Dossier

Polysulfides, di-tert-dodecyl:

In vitro mutagenicity/genotoxicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = positive. , OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative. OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = negative. Literature information: REACH Dossier
Developmental toxicity/teratogenicity: Species: Rat; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 1000 mg/kg; 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.

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %):

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Species: Rat; Results: NOAEL 750 mg/kg; Literature information: REACH Dossier

Distillates (petroleum), hydrotreated middle, Gasoil - unspecified:

Subchronic inhalative toxicity: Method: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) Species: Rat; Results: NOAEC 1,71 mg/m³; Literature information: REACH Dossier

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Polysulfides, di-tert-dodecyl:

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

Species: Rat; Results: NOAEL 1000 mg/kg; Literature information: REACH Dossier

Aspiration hazard

May be fatal if swallowed and enters airways.

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
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)					
	Acute fish toxicity	LC50 1000 mg/l	LL50 >	96 h		ECHA Dossier
	Acute crustacea toxicity	EC50 1000 mg/l	EL50 >	48 h	Daphnia magna	ECHA Dossier
	Fish toxicity	NOEC 5000 mg/l	EL50 >	21 d		ECHA Dossier
	Crustacea toxicity	NOEC 1400 mg/l	EL50 >	21 d	Daphnia magna	ECHA Dossier
64742-46-7	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert					
	Acute fish toxicity	LL50 mg/l	1,13	96 h	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)
	Acute algae toxicity	ErC50 mg/l	1,714	72 h	Raphidocelis subcapitata	CONCAWE, Brussels, Belgium (2010)
	Acute crustacea toxicity	EL50 mg/l	7,385	48 h	Daphnia magna	CONCAWE, Brussels, Belgium (2010)
68425-15-0	Polysulfides, di-tert-dodecyl					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Danio rerio	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	ECHA Dossier OECD Guideline 201
67-56-1	methanol*					
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier EPA-660/3-75-00 9, 1975
	Acute algae toxicity	ErC50 mg/l	22000	96 h	Pseudokirchnerella subca	ECHA Dossier OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	18260	48 h	Daphnia magna	ECHA Dossier
	Fish toxicity	NOEC mg/l	446,7	28 d	Pimephales promelas	SAR and QSAR in Environmental Research, ECOSAR

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	Crustacea toxicity	NOEC	208 mg/l	21 d	Daphnia magna	OECD QSAR Toolbox Report (2013)	
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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			
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)			
	OECD Guideline 301 F	60,7%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
64742-46-7	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	60%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
68425-15-0	Polysulfides, di-tert-dodecyl			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	0%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
67-56-1	methanol*			
	other guideline	76%	20	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
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)	> 3,5
64742-46-7	Destillate (Erdöl), mit Wasserstoff behandelte mittlere; Gasöl - nicht spezifiziert	3,9 - 6
68425-15-0	Polysulfides, di-tert-dodecyl	> 6,2
67-56-1	methanol*	-0,77

BCF

CAS No	Chemical name	BCF	Species	Source
68425-15-0	Polysulfides, di-tert-dodecyl	< 0,01	Cyprinus carpio	ECHA Dossier
67-56-1	methanol*	< 10	Leuciscus idus melanotus	Chemosphere 14(10):

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.



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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

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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 (EC) 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**

Rev.: 1,0 - 15.05.2015

Rev.: 1,01 - 28.04.2015

Rev.: 1,1 - 10.05.2016

Rev.: 2,0 - 02.06.2017

Rev.: 3,0 - 27.06.2018

Rev.: 4,0 - 19.06.2019

Rev.: 5,0 - 25.06.2020; Changes in chapter: 1.1, 3.2, 11.1, 12.1, 12.2, 12.3, 15.1, 16

Rev.: 6,0 - 16.06.2021; Changes in chapter: 3.2, 6.1, 6.3, 11.2, 12.6, 12.7, 15.1, 16

Rev.: 7,0 - 28.06.2022, Changes in chapter: 2.3, 3.2, 8.1, 8.2, 12.1, 12.2, 12.3, 12.5, 12.6, 15.1, 16

Rev.: 7,1 - 22.11.2022, Changes in chapter: 2.2, 3.2, 8.1, 12.1, 12.2, 12.3, 16

Rev.: 8,0 - 14.11.2023, Changes in chapter: 8.1, 9.1, 11.2, 12.1, 12.7, 14, 15.1, 16

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Abbreviations and acronyms

Flam. Liq: Flammable liquid
Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
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
DNEL: Derived No Effect Level
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)
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
NTP: National Toxicology Program
N/A: not applicable
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)
SVHC: substance of very high concern
TRGS Technische Regeln fuerGefahrstoffe
TSCA: Toxic Substances Control Act
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
Asp. Tox. 1; H304	Calculation method
Skin Sens. 1; H317	Calculation method
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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H370 Causes damage to organs.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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EUH066 Repeated exposure may cause skin dryness or cracking.

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.)