

Condorees GS-F

Version number: 4.0
Replaces version of: 18.03.2021 (3)

Revision: 29.06.2021

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

1.1 Product identifier

Trade name	Condorees GS-F
Registration number (REACH)	Not relevant (mixture)

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

Relevant identified uses	Lubricants, greases, release products
Uses advised against	Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

FRIEDRICH SCHARR KG
Liebknechtstraße 50
70565 Stuttgart
Germany

Telephone: +49 711 7868-0
Telefax: +49 711 7868-489
e-mail: info@scharr.de
Website: www.scharr.de

e-mail (competent person)	produktsicherheit@scharr.de (Produktsicherheit)
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1.4 Emergency telephone number

Emergency information service	+49 711 7868-237 This number is only available during the following office hours: Mon-Fri 07:00 - 17:00
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Poison centre			
Country	Name	Postal code/city	Telephone
Germany	Giftinformation Freiburg	79106 Freiburg im Breisgau	+49 (0)761 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard class	Category	Hazard class and category	Hazard statement
hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word not required

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- pictograms not required
- 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 industrial combustion plant.

2.3 Other hazards

of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Distillates (petroleum), hydrotreated light naphthenic	CAS No 64742-53-6 EC No 265-156-6 Index No 649-466-00-2 REACH Reg. No 01-2119480375-34-xxxx	5 – < 10	Asp. Tox. 1 / H304	
Alcohols, C16-18 and C18-unsatd., ethoxylated	CAS No 68920-66-1 EC No 500-236-9 REACH Reg. No 01-2119489407-26-xxxx	5 – < 10	Skin Irrit. 2 / H315 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	
Alcohols, C16-18 and C18-unsatd., ethoxylated	CAS No 68920-66-1 EC No 500-236-9 REACH Reg. No 01-2119489407-26-xxxx	5 – < 10	Skin Irrit. 2 / H315 Aquatic Chronic 2 / H411	
Ölsäure-amidoethanol-polyethoxylat	CAS No 26027-37-2	5 – < 10	Eye Irrit. 2 / H319 Aquatic Chronic 4 / H413	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Sulfonic acids, petroleum, sodium salts	CAS No 68608-26-4 EC No 271-781-5 REACH Reg. No 01-2119527859-22- xxxx	5 – < 10	Eye Irrit. 2 / H319	
boric acid	CAS No 10043-35-3 EC No 233-139-2 Index No 005-007-00-2 REACH Reg. No 01-2119486683-25- xxxx	1 – < 5	Acute Tox. 4 / H332 Repr. 1B / H360FD Aquatic Chronic 4 / H413	
pyridine-2-thiol 1-oxide, sodium salt	CAS No 3811-73-2 EC No 223-296-5 REACH Reg. No 01-2119493385-28- xxxx	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
boric acid	Repr. 1B; H360FD: C ≥ 5,5 %	-	>2,12 mg/l/4h	inhalation: dust/mist
pyridine-2-thiol 1-oxide, sodium salt	-	M-factor (acute) = 100.0 M-factor (chronic) = 10.0	1.208 mg/kg 1.900 mg/kg 1,5 mg/l/4h	oral dermal inhalation: dust/mist

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

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Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulties. Headache. Vertigo.

4.3 Indication of any immediate medical attention and special treatment needed

Subsequent observance for pneumonia and pulmonary oedema. Supervise the blood circulation.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂), Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Danger of bursting container.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxides (P_xO_y), Sulphur dioxide (SO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Provision of sufficient ventilation.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Production date + 6 months

Protect against external exposure, such as

Frost

- specific designs for storage rooms or vessels

- Recommended storage temperature 5 – 40 °C

- Lagerklasse (storage class according to TRGS 510, 12 (non-combustible liquids) Germany)

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of substance	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
AT	pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	MAK		1		4	GKV
CH	boric acid	10043-35-3	MAK		1,8		1,8	SUVA
CH	pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	MAK		0,2		0,4	SUVA
DE	boric acid	10043-35-3	MAK		10		10	DFG
DE	boric acid	10043-35-3	AGW		0,5		1	TRGS 900
DE	pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	MAK		0,2		0,4	DFG

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Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of substance	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
DE	pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	AGW		0,2		0,4	TRGS 900

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	DNEL	294 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	DNEL	2.080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	DNEL	294 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	DNEL	2.080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Sulfonic acids, petroleum, sodium salts	68608-26-4	DNEL	0,66 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sulfonic acids, petroleum, sodium salts	68608-26-4	DNEL	3,33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
boric acid	10043-35-3	DNEL	8,3 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
boric acid	10043-35-3	DNEL	392 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	PNEC	9,33 mg/kg	aquatic organisms	water	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,1 mg/l	aquatic organisms	water	intermittent release

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,007 mg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	10 g/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	22,79 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	2,28 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,1 mg/l	aquatic organisms	water	intermittent release
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,007 mg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	10 g/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	22,79 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	2,28 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	16,67 mg/kg	aquatic organisms	water	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	10 mg/l	aquatic organisms	water	intermittent release
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	723,500.000 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	723,500.000 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	868,700.000 mg/kg	terrestrial organisms	soil	short-term (single instance)
boric acid	10043-35-3	PNEC	13,7 mg/l	aquatic organisms	water	intermittent release
boric acid	10043-35-3	PNEC	2,9 mg/l	aquatic organisms	freshwater	short-term (single instance)
boric acid	10043-35-3	PNEC	2,9 mg/l	aquatic organisms	marine water	short-term (single instance)
boric acid	10043-35-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
boric acid	10043-35-3	PNEC	5,7 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- type of material

NBR: acrylonitrile-butadiene rubber

- material thickness

0,12 mm

- breakthrough times of the glove material

>240 minutes (permeation: level 5)

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- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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

Physical state	liquid
Colour	yellow
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Evaporation rate	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	250 °C
pH (value)	9,3 (in aqueous solution: 20 g/l, 20 °C)
Kinematic viscosity	30 mm ² /s at 20 °C (DIN 51562)

Solubility(ies)

Water solubility	miscible in any proportion
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Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	not determined
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Density and/or relative density

Density	1,04 g/cm ³ at 20 °C
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Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

Miscibility	Completely miscible with water.
Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)

SECTION 10: Stability and reactivity**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers, Zinc

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

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Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
boric acid	10043-35-3	inhalation: dust/mist	>2,12 mg/l/4h
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	oral	1.208 mg/kg
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	dermal	1.900 mg/kg
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	inhalation: dust/mist	1,5 mg/l/4h

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	oral	LD50	>5.000 mg/kg	rat
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	inhalation: dust/mist	LC50	2,18 mg/l/4h	rat
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	dermal	LD50	>5.000 mg/kg	rabbit
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	oral	LD50	>2.000 mg/kg	rat
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	oral	LD50	>2.000 mg/kg	rat
Sulfonic acids, petroleum, sodium salts	68608-26-4	inhalation: dust/mist	LC50	>1,9 mg/l/4h	rat
Sulfonic acids, petroleum, sodium salts	68608-26-4	dermal	LD50	>5.000 mg/kg	rabbit
boric acid	10043-35-3	oral	LD50	3.450 mg/kg	rat
boric acid	10043-35-3	inhalation: dust/mist	LC50	>2,12 mg/l/4h	rat
boric acid	10043-35-3	dermal	LD50	>2.000 mg/kg	rabbit
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	oral	LD50	1.208 mg/kg	rat
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	dermal	LD50	1.900 mg/kg	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

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Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	LL50	>100 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	EL50	>10.000 mg/l	aquatic invertebrates	24 h
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	LC50	108 mg/l	fish	96 h
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	EL50	51 mg/l	aquatic invertebrates	48 h
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	LC50	108 mg/l	fish	96 h
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	EL50	51 mg/l	aquatic invertebrates	48 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	LL50	>10.000 mg/l	fish	96 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	EC50	>1.000 mg/l	aquatic invertebrates	48 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	ErC50	>1.000 mg/l	algae	72 h
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	LC50	7,3 µg/l	fish	96 h
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	EC50	0,6 mg/l	aquatic invertebrates	48 h

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	ErC50	0,46 mg/l	algae	72 h
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	EbC50	0,23 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	LL50	>10.000 mg/l	aquatic invertebrates	24 h
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	EC50	>10 g/l	microorganisms	16,9 h
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	EC50	>10 g/l	microorganisms	16,9 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	EC50	≤5.000 mg/l	microorganisms	8 h
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	EC50	1,81 mg/l	microorganisms	3 h

Biodegradation

Data are not available.

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	carbon dioxide generation	99 %	28 d		ECHA
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	carbon dioxide generation	99 %	28 d		ECHA
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	carbon dioxide generation	2 %	8 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

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Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	387,5	3,8	
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	387,5	3,8	
Sulfonic acids, petroleum, sodium salts	68608-26-4		16,09 (25 °C)	
boric acid	10043-35-3		-1,09 (pH value: 7,5, 22 °C)	
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2		-2,38 (pH value: 7, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.

Endocrine disrupting chemicals (EDC)				
Name of substance	CAS No	Combined category	Human health category	Wildlife category
boric acid	10043-35-3	CAT1	CAT1	CAT2

Legend

CAT1 Category 1 - evidence of endocrine disruption in at least one species using intact animals
CAT2 Category 2 - at least some in vitro evidence of biological activity related to endocrine disruption

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packageings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

Machining emulsions and solutions free of halogens 12 01 09*

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

- 14.1 UN number or ID number** not subject to transport regulations
- 14.2 UN proper shipping name** not relevant
- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**
There is no additional information.
- 14.7 Maritime transport in bulk according to IMO instruments**
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Relevant provisions of the European Union (EU)
List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

Substance of Very High Concern (SVHC)			
Name acc. to inventory	CAS No	Listed in	Remarks
boric acid	10043-35-3	Candidate list	Repr. A57c

Legend

candidate list Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV
Repr. A57c Toxic for reproduction (article 57c)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

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VOC Deco-Paint Directive 2004/42/EC

VOC content	0 %
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Industrial Emissions Directive (IED)

VOC content	0 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Austria)

Ordinance on combustible liquids (VbF) not assigned (flash point higher than 55 °C, water miscible)

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 1 slightly hazardous to water
(water hazard class)

National regulations Switzerland

Ordinance on the incentive tax on volatile organic compounds (VOCV)

The product is exempt from the tax. Product in which the VOC content does not exceed 3 per cent (% by weight).

National inventories

Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

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Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
3.2		Hazardous ingredients: change in the listing (table)
8.2	Material thickness: 0,4 mm	Material thickness: 0,12 mm
8.2	Protective gloves Splash protection	
8.2	Type of material: nitrile	
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)
11.1		Acute toxicity of components of the mixture: change in the listing (table)
12.6	Endocrine disrupting properties: Information on this property is not available.	Endocrine disrupting properties: The mixture contains substance(s) with an endocrine disrupting potential.
12.6		Endocrine disrupting chemicals (EDC): change in the listing (table)
14.1	UN number or ID number	UN number or ID number: not subject to transport regulations
14.1	ADN: UN	
14.2	UN proper shipping name: not assigned	UN proper shipping name: not relevant
14.7	Transport of dangerous goods by road, rail and in- land waterway (ADR/RID/ADN) - additional informa- tion: not assigned	Transport of dangerous goods by road, rail and in- land waterway (ADR/RID/ADN) - additional informa- tion: Not subject to ADR, RID and ADN.

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Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
GKV	Grenzwerteverordnung
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)

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Abbr.	Descriptions of used abbreviations
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
SUVA	Grenzwerte am Arbeitsplatz, Suva
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H360FD	May damage fertility. May damage the unborn child.
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.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.