

KORASILON HYDROPHOBIERMITTEL FF 2 ROT 0,1%

Version number: GHS 2.0

Revision: 16.08.2024

Replaces version of: 09.04.2024 (GHS 1)

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

1.1 Product identifier

Trade name

KORASILON Hydrophobiermittel FF 2 rot 0,1%

Registration number (REACH)

not relevant (mixture)

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

Relevant identified uses

Impregnating product

Uses advised against

Do not use for products which come into contact with food-stuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Kurt Obermeier GmbH
Berghäuser Str. 70
57319 Bad Berleburg
Germany

Telephone: +49 2751 5240
Telefax: +49 2751 5041
e-mail: info@obermeier.de
Website: www.obermeier.de

e-mail (competent person)

sdb@obermeier.de

1.4 Emergency telephone number

Name	Telephone
24h	+49 (0) 70024112112 (KOR) ; +1 872 5888271 (KOR)

1.4.4 Language(s) of the phone service

multilingual information

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16.

2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07



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- Hazard statements

- H315 Causes skin irritation.
H319 Causes serious eye irritation.

- Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to recovery or disposal facilities.

2.3 Other hazards

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable. Inhalation of aerosol spray may damage health.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Specific Conc. Limits	M-Factors
Siloxanes and Silic-ones, 3-((2-amino-ethyl)amino)propyl Me, di-Me, methoxy-terminated	CAS No 102782-92-3	10 – < 25	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		
2-(2-butoxyethoxy)eth-anol	CAS No 112-34-5 EC No 203-961-6 Index No 603-096-00-8 REACH Reg. No 01-2119475104-44-xxxx	5 – < 10	Eye Irrit. 2 / H319		
2-hexyloxyethanol	CAS No 112-25-4 EC No 203-951-1	1 – < 3	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Corr. 1B / H314 Eye Dam. 1 / H318		

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Specific Conc. Limits	M-Factors
	Index No 603-178-00-3 REACH Reg. No 01-2119486575- 24-xxxx				
Octamethylcyclotetrasiloxane	CAS No 556-67-2 EC No 209-136-7 Index No 014-018-00-1 REACH Reg. No 01-2119529238- 36-xxxx	< 0,05	Flam. Liq. 3 / H226 Repr. 2 / H361f Aquatic Chronic 1 / H410		M-factor (chronic) = 10

Hazardous ingredients: **ATE**

Name of substance	ATE	Exposure route
Siloxanes and Silicones, 3-((2-aminoethyl)amino)propyl Me, di-Me, methoxy-terminated	>2.000 mg/kg >2.000 mg/kg	oral dermal
2-hexyloxyethanol	500 mg/kg 300 mg/kg	oral dermal

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. Remove victim out of the danger area. Do not leave affected person unattended.

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water. If eye irritation persists: Get medical advice/attention.

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO₂), Alcohol resistant foam, Water spray, Water mist, BC-powder, Sand**Unsuitable extinguishing media**

Water jet

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), Formaldehyde**5.3 Advice for firefighters**

In case of fire toxic gases may be formed. In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Collect contaminated firefighting water separately.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety. Special danger of slipping by leaking/spilling product.

For emergency responders

Use personal protection equipment. Special danger of slipping by leaking/spilling product. Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Prevent spread over a wide area (e.g. by containment or oil barriers). 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**

Take up mechanically, 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

Special danger of slipping by leaking/spilling product. Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Vapours/aerosols must be exhausted directly at the point of origin. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Advice on general occupational hygiene

Avoid contact with skin and eyes. Wash hands after use. Keep away from food, drink and animal feedingstuffs. Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated place. Keep only in original container.

Managing of associated risks

- Explosive atmospheres

Hydrolyse Methanol. Vapours may form explosive mixtures with air.

- Flammability hazards

Protect from moisture.

Protect against external exposure, such as

Frost, Humidity

Storage class (LGK)

TRGS 510

LGK 12 (non-combustible liquids)

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	2-(2-butoxyethoxy)ethanol	112-34-5	AGW	10	67	15	100,5			va, Y	TRGS 900
DE	butyl diglycol	112-34-5	MAK	10	67	15	100,5			va, DE-MAK-2	DFG
EU	2-(2-butoxyethoxy)ethanol	112-34-5	IOELV	10	67,5	15	101,2				2006/15/EC

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

DE-MAK-2 MAK value for the sum of the air concentrations of butyl diglycol and butyl diglycol acetate.

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)

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Notation

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)
va	as vapours and aerosols
Y	a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Relevant DNELs of components of the mixture

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67,5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67,5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	101,2 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	40,5 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	40,5 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	60,7 mg/m ³	human, inhalatory	consumer (private households)	acute - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	50 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	18,4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	9,3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	18,5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	2,9 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	4,63 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	9,25 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	0,24 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2-hexyloxyethanol	112-25-4	DNEL	0,49 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
rasiloxane						
Octamethylcyclotetrasiloxane	556-67-2	DNEL	13 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	13 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	3,7 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	1,1 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0,11 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	4,4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0,44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0,32 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-hexyloxyethanol	112-25-4	PNEC	0,14 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-hexyloxyethanol	112-25-4	PNEC	0,014 mg/l	aquatic organisms	marine water	short-term (single instance)
2-hexyloxyethanol	112-25-4	PNEC	75 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-hexyloxyethanol	112-25-4	PNEC	0,644 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-hexyloxyethanol	112-25-4	PNEC	0,064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-hexyloxyethanol	112-25-4	PNEC	0,047 mg/kg	terrestrial organisms	soil	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	1,5 µg/l	aquatic organisms	freshwater	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	0,15 µg/l	aquatic organisms	marine water	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

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Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Octamethylcyclotetrasiloxane	556-67-2	PNEC	3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	0,3 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	0,54 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Appropriate engineering controls

Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air exchange.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side 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 together with the supplier of these gloves.

- Type of material

IIR: isobutene-isoprene (butyl) rubber, NBR: acrylonitrile-butadiene rubber

- Other protection measures

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

Respiratory protection

Usually no personal respiratory protection necessary

Respiratory protection necessary at: aerosol or mist formation

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	red
Odour	light
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined

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Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	ca. 4,5

Solubility(ies)

Water solubility	miscible in any proportion
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Partition coefficient

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

Density	ca. 1 g/cm ³ at 25 °C
Relative vapour density	information on this property is not available

Particle characteristics	(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.
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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

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

Formation of: Methanol.

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

The classification criteria for these hazard classes are not met.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Siloxanes and Silicones, 3-((2-aminoethyl)amino)propyl Me, di-Me, methoxy-terminated	102782-92-3	oral	>2.000 mg/kg
Siloxanes and Silicones, 3-((2-aminoethyl)amino)propyl Me, di-Me, methoxy-terminated	102782-92-3	dermal	>2.000 mg/kg
2-hexyloxyethanol	112-25-4	oral	500 mg/kg
2-hexyloxyethanol	112-25-4	dermal	300 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

The classification criteria for these hazard classes are not met.

Germ cell mutagenicity

The classification criteria for this hazard class are not met.

Carcinogenicity

The classification criteria for this hazard class are not met.

Reproductive toxicity

The classification criteria for this hazard class are not met.

Specific target organ toxicity - single exposure

The classification criteria for this hazard class are not met.

Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

Aspiration hazard

The classification criteria for this hazard class are not met.

Other information

Inhalation of aerosol spray may damage health.

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11.2 Information on other hazards

There is no additional information.

Endocrine disrupting propertiesDoes not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.**SECTION 12: Ecological information****12.1 Toxicity**

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessmentNone of the ingredients are listed $\geq 0,1\%$.**12.6 Endocrine disrupting properties**None of the ingredients are listed $\geq 0,1\%$.**12.7 Other adverse effects**

Data are not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

Waste treatment-relevant information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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/packagings

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

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.

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

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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)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	No
KORASILON Hydrophobiermittel FF 2 rot 0,1%	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
Siloxanes and Silicones, 3-((2-aminoethyl)amino)propyl Me, di-Me, methoxy-terminated	substances in tattoo inks and permanent make-up		75
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	55
2-(2-butoxyethoxy)ethanol	substances in tattoo inks and permanent make-up		75
2-hexyloxyethanol	substances in tattoo inks and permanent make-up		75

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed $\geq 0,1\%$

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		

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

none of the ingredients are listed

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

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Octamethylcyclotetrasiloxane		a)	

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (Germany)

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

Wassergefährdungsklasse, WGK (water hazard class) 2 obviously hazardous to water

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances	class I	1 – < 5 wt%	0,1 kg/h	20 mg/m ³	3)
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed or exempt from listing
CA	DSL	all ingredients are listed or exempt from listing
CN	IECSC	all ingredients are listed or exempt from listing
EU	REACH Reg.	all ingredients are listed or exempt from listing
JP	ISHA-ENCS	all ingredients are listed or exempt from listing
JP	CSCL-ENCS	all ingredients are listed or exempt from listing
KR	KECI	all ingredients are listed or exempt from listing
PH	PICCS	all ingredients are listed or exempt from listing

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Country	Inventory	Status
TW	TCSI	all ingredients are listed or exempt from listing
US	TSCA	all ingredients are listed or exempt from listing
VN	NCI	all ingredients are listed or exempt from listing

Legend

AIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
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)

Indication of changes (revised safety data sheet)		
Section	Former entry (text/value)	Actual entry (text/value)
1.1	Trade name: KORASILON Hydrophobiermittel FF 2 rot 0,05%	Trade name: KORASILON Hydrophobiermittel FF 2 rot 0,1%
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB $\geq 0,1\%$.
8.2	Respiratory protection: Usually no personal respiratory protection necessary, Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values, aerosol or mist formation, full face mask/half mask/quarter mask (EN 136/140), type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White), type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White)	Respiratory protection: Usually no personal respiratory protection necessary Respiratory protection necessary at: aerosol or mist formation
10.6	Hazardous decomposition products: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.	Hazardous decomposition products: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. Formation of: Methanol.
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: None of the ingredients are listed $\geq 0,1\%$.
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.	Endocrine disrupting properties: None of the ingredients are listed $\geq 0,1\%$.

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Indication of changes (revised safety data sheet)		
Section	Former entry (text/value)	Actual entry (text/value)
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: None of the ingredients are listed	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: None of the ingredients are listed $\geq 0,1\%$

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
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 relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
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
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)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

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Abbr.	Descriptions of used abbreviations
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
IOELV	Indicative occupational exposure limit value
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
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
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
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).

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

Code	Text
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

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Code	Text
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

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

Internal code

OBERMEIER 002177