

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : KORASILON CC 5
Article number : 8007-67
Revision date : 14.12.2018
Print date : 14.12.2018
Version (Revision) : 3.0.0 (2.2.1)

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

1.1 Product identifier

KORASILON CC 5 (8007-67)
Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 ; EC No. : 208-764-9 ; REACH registration No. : 01-2119511367-43

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

Relevant identified uses

Intermediate Polishes and wax blends Cosmetics, personal care products Laboratory chemicals Textile dyes and impregnating products Bleaching agent Process regulator

Uses advised against

No information available.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Kurt Obermeier GmbH & Co. KG
Spezialchemikalien Holzschutz

Street : Berghäuser Str. 70

Postal code/city : 57319 Bad Berleburg

Telephone : +492751/524-0

Telefax : +492751/5041

Information contact : E-Mail: sdb@obermeier.de

1.4 Emergency telephone number

+49 2751/524-113 (Mo-Fr 08:00-16:00 / 8.00am-4.00pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

None

Classification procedure

On basis of test data.

2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

2.3 Other hazards

No information available.

Other adverse effects

Special danger of slipping by leaking/spilling product. Vapours can form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Decamethylcyclopentasiloxane

EC No. : 208-764-9

REACH No. : 01-2119511367-43

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CAS No. : 541-02-6

Purity : $\geq 95 - < 100$ % [mass]

Hazardous impurities

Dodecamethylcyclohexasiloxane ; REACH registration No. : 01-2119517435-42 ; EC No. : 208-762-8; CAS No. : 540-97-6

Weight fraction : $\geq 1 - < 10$ %

Classification 1272/2008 [CLP] : None

This product contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

Dodecamethylcyclohexasiloxane ; REACH registration No. : 01-2119517435-42 ; EC No. : 208-762-8; CAS No. : 540-97-6

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Provide fresh air.

In case of skin contact

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

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water.

Self-protection of the first aider

No special measures are necessary.

Information to physician

Treatment

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) alcohol resistant foam Water spray jet Extinguishing powder Sand

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Vapours can form explosive mixtures with air.

5.3 Advice for firefighters

In case of fire toxic gases may be formed.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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5.4 Additional information

None

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take the precautions customary when handling chemicals. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

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).

6.3 Methods and material for containment and cleaning up

For cleaning up

Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4 Reference to other sections

None

6.5 Additional information

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Protective measures

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Hints on joint storage

Keep away from: Oxidizing agent. Acid Alkali (lye). Gas Explosives

Storage class (TRGS 510) : 10

Further information on storage conditions

Protect containers against damage.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

Biological limit values

No data available

DNEL/DMEL and PNEC values

DNEL/DMEL

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Limit value type : DNEL Consumer (local) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 4,3 mg/m³

Limit value type : DNEL Consumer (local) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 4,3 mg/m³

Limit value type : DNEL Consumer (systemic) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 17,3 mg/m³

Limit value type : DNEL Consumer (systemic) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Oral
Exposure frequency : Short-term (acute)
Limit value : 5 mg/kg/day

Limit value type : DNEL Consumer (systemic) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 17,3 mg/m³

Limit value type : DNEL Consumer (systemic) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 5 mg/kg/day

Limit value type : DNEL worker (local) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 24,2 mg/m³

Limit value type : DNEL worker (local) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 24,2 mg/m³

Limit value type : DNEL worker (systemic) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 97,3 mg/m³

Limit value type : DNEL worker (systemic) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 97,3 mg/m³

PNEC

Limit value type : PNEC (Aquatic, freshwater) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Limit value : > 0,0012 mg/l

Limit value type : PNEC (Aquatic, marine water) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Limit value : > 0,00012 mg/l

Limit value type : PNEC (Sediment, freshwater) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Limit value : 2,4 mg/kg

Limit value type : PNEC (Sediment, marine water) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Limit value : 0,24 mg/kg

Limit value type : PNEC (Soil) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)
Limit value : 1,1 mg/kg

Limit value type : PNEC (Sewage treatment plant) (Decamethylcyclopentasiloxane ; CAS No. : 541-02-6)

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Limit value : > 10 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

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. EN ISO 374

Suitable material : Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber)

Breakthrough time (maximum wearing time) : 480 minutes. Check leak tightness/impermeability prior to use. 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.

Additional hand protection measures : flame-retardant

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus

Filtering device with filter or ventilator filtering device of type: A

General health and safety measures

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. P283 - Wear fire resistant or flame retardant clothing. Wear anti-static footwear and clothing

8.3 Additional information

No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : Different according to colour

Odour

light

Safety relevant basis data

Solidifying point :	(1 bar / 1 Pa)	not determined	Brookfield
Melting point/melting range :		not determined	
Freezing point :		not determined	
Initial boiling point and boiling range :	approx.	210	°C
Decomposition temperature :		not determined	
Flash point :	approx.	77	°C
Ignition temperature :	approx.	392	°C
Lower explosion limit :	approx.	0,4 - 0,5	Vol-%
Upper explosion limit :	approx.	7 - 13,2	Vol-%
Vapour pressure :	(20 °C)	approx.	0,2 - 0,3 hPa
Vapour pressure :	(50 °C)		not determined
Density :	(25 °C)	approx.	0,96 g/cm ³
Solvent separation test :	(20 °C)		not determined
Fat solubility :	(20 °C)		Not determined.
Solubility in water			Insoluble
pH :	(20 °C)		not determined

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log P O/W : > 5
Kinematic viscosity (25 °C) approx. 4 mm²/s
Odour threshold : not determined
Relative vapour density : (20 °C) not determined
Evaporation rate : not determined
Vapourisation rate : not determined
Flammable solids : Not determined.
Flammable gases : Not determined.
Oxidising liquids : Not determined.
Explosive properties : Not determined.
Corrosive to metals : Not determined.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Combustible substance Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

10.5 Incompatible materials

Oxidizing agent. Acid Alkali (lye).

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.

10.7 Additional information

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter : LD50
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg
Parameter : LD50 (Dodecamethylcyclohexasiloxane ; CAS No. : 540-97-6)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg

Acute dermal toxicity

Parameter : LD50
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg

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Method : OECD 402
Parameter : LD50 (Dodecamethylcyclhexasiloxane ; CAS No. : 540-97-6)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Specific symptoms in animal studies

The product has not been tested.

Irritant and corrosive effects

Primary irritation to the skin

Irritation to eyes

Irritation to respiratory tract

The product has not been tested.

Sensitisation

In case of skin contact

In case of inhalation

The product has not been tested.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

Parameter : NOAEL(C)
Exposure route : Oral
Species : Rat
Effective dose : => 1000 mg/kg
Exposure time : 90 d
Parameter : NOAEL(C) (Dodecamethylcyclhexasiloxane ; CAS No. : 540-97-6)
Exposure route : Oral
Species : Rat
Effective dose : 1000 mg/kg

Subacute dermal toxicity

Parameter : NOAEL(C)
Exposure route : Dermal
Species : Rat
Effective dose : => 1600 mg/kg
Exposure time : 28 d
Method : OECD 410

Subacute inhalation toxicity

Parameter : NOAEL(C)
Exposure route : Inhalation
Species : Rat
Effective dose : >= 160 ppm
Exposure time : 720 d

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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Carcinogenicity

Parameter : Carcinogenicity
Test result : Negative.
No indication of human carcinogenicity.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

In vitro mutagenicity

Parameter : In vitro mutagenicity
Test result : Ames test negative.

In vivo mutagenicity

Parameter : In-vivo Unscheduled DNA Synthesis (UDS)
Species : Rat
Test result : Negative.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Developmental toxicity/teratogenicity

Two generation reproduction toxicity test

Parameter : Two generation reproduction toxicity test
Species : Rat
Test result : Negative.

STOT-single exposure

The product has not been tested.

STOT-repeated exposure

The product has not been tested.

Aspiration hazard

The product has not been tested.

11.2 Toxicokinetics, metabolism and distribution

The product has not been tested.

11.4 Other adverse effects

No data available

11.5 Additional information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

The product has not been tested.

Chronic (long-term) fish toxicity

The product has not been tested.

Acute (short-term) daphnia toxicity

The product has not been tested.

Chronic (long-term) daphnia toxicity

The product has not been tested.

Acute (short-term) algae toxicity

The product has not been tested.

Chronic (long-term) algae toxicity

The product has not been tested.

Bacteria toxicity

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The product has not been tested.

Terrestrial toxicity

The product has not been tested.

Toxicity to terrestrial plants

The product has not been tested.

Effects in sewage plants

The product has not been tested.

12.2 Persistence and degradability

Abiotic degradation

The product has not been tested.

Biodegradation

The product has not been tested.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC). However, D5 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms. Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC). However, D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms

12.6 Other adverse effects

No data available

12.7 Additional ecotoxicological information

No data 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.

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Product

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

Appropriate disposal / Package

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

SECTION 14: Transport information

14.1 UN number

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No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Use restriction according to REACH annex XVII, no. : 70

National regulations

Technische Anleitung Luft (TA-Luft)

Sum organic substances class III : 95 - 100 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

Additional information

Substance/product listed in the following inventories

AICS REACH ENCS (Class 1 and 2) IECSC TCSI KECL DSL/NDL NZIoC PICCS TSCA

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients · 08. Occupational exposure limit values · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

REACH - Registration, Evaluation, Authorisation of Chemicals

GHS - Globally Harmonised System of Classification and Labeling

CLP - Classification, Labeling and Packaging of Substances and Mixtures

CAS - Chemical Abstract Service

TWA - Time Weighted Average

DNEL/DMEL - Derived No Effect Level

PNEC - Predicted No Effect Concentration

STP - Sewage Treatment Plant

TRGS - Technical Rules for Hazardous Substances (German Regulations)

STEL - Short-term Exposure Limit

TLV - threshold limit value

AGW - Occupational threshold limit value

RCP - Reciprocal Calculation Procedure

ATE - Acute Toxicity Estimate

MAK Threshold limit values Germany

LD50 - Lethal Dose, 50%

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LC50 - Lethal concentration, 50%
OECD - Organization for Economic Cooperation and Development
NOAEL - No Observed Adverse Effect Level
EC50 - half maximal effective concentration
NOEC - No Observed Effect Concentration
PBT - Persistent, Bioaccumulative, Toxic
vPvB - very Persistent, very Bioaccumulative
ADR/RID - European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)/Regulations Concerning the International Transport of Dangerous Goods by Rail (Règlement concernant le transport International ferroviaire de marchandises Dangereuses)
IMDG - International Maritime Dangerous Goods Code
ICAO - International Civil Aviation Association
IATA - International Air Transport Association
VwVws - German administrative regulation on the classification of substances hazardous to water into water hazard classes
AwSV - Ordinance on facilities for handling substances that are hazardous to water

16.3 Key literature references and sources for data

None

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

No information available.

16.4 Relevant H- and EUH-phrases (Number and full text)

None

16.5 Training advice

None

16.6 Additional information

None

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.
