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, finishing and impregnating products Bleaching agent Process regulator or aid

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
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
   High power 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.

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: Oxidising 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
Decamethylcyclopentasiloxane ; CAS No. : 541-02-6
Limit value type (country of origin) : TWA ( EC )
Limit value : 10 ppm
Version :

Biological limit values
No data available
DNEL/DMEL and PNEC values
DNEL/DMEL

Limit value type : DNEL/DMEL (Consumer) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 4,3 mg/m³
Limit value type : DNEL/DMEL (Consumer) (Decamethylcyclopentasiloxane; CAS No.: 541-02-6)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
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 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 (systemic) (Decamethylcyclopentasiloxane; CAS No.: 541-02-6)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 97,3 mg/m³
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 : 2,39 mg/kg
Limit value type : PNEC sediment, marine water (Decamethylcyclopentasiloxane; CAS No.: 541-02-6)
Limit value : 0,239 mg/kg
Limit value type : PNEC soil, freshwater (Decamethylcyclopentasiloxane; CAS No.: 541-02-6)
Limit value : 3,34 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (Decamethylcyclopentasiloxane; CAS No.: 541-02-6)
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.

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/flame resistant/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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solidifying point</td>
<td>( 1 bar / 1 Pa )</td>
</tr>
<tr>
<td>Melting point/melting range</td>
<td>not determined</td>
</tr>
<tr>
<td>Freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>approx. 210 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>approx. 77 °C</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>approx. 392 °C</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>approx. 0,4 Vol-%</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>approx. 13,2 Vol-%</td>
</tr>
<tr>
<td>Vapour pressure (20 °C)</td>
<td>&lt; 2 hPa</td>
</tr>
<tr>
<td>Vapour pressure (50 °C)</td>
<td>not determined</td>
</tr>
<tr>
<td>Density (25 °C)</td>
<td>approx. 0,95 g/cm³</td>
</tr>
<tr>
<td>Solvent separation test (20 °C)</td>
<td>not determined</td>
</tr>
<tr>
<td>Fat solubility (20 °C)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in water (20 °C)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>pH</td>
<td>not determined</td>
</tr>
</tbody>
</table>
log P O/W : > 5
Kinematic viscosity (25 °C) approx. 3,8 mm²/s
Odour threshold : not determined
Relative vapour density : (20 °C) not determined
Evaporation rate : not determined
Vapourisation rate : < 1 (Ether = 1)
Flammable solids : No data available.
Flammable gases : No data available.
Oxidising liquids : No data available.
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
Oxidising 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

Acute dermal toxicity
Parameter : LD50
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 402

Acute inhalation toxicity
Parameter: LC50  
Exposure route: Inhalation  
Species: Rat  
Effective dose: 8.67 mg/l  
Exposure time: 4 h  
Method: OECD 403

**STOT single exposure**

The product has not been tested.

**Specific symptoms in animal studies**

The product has not been tested.

**Irritant and corrosive effects**

**Primary irritation to the skin**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Primary irritation to the skin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Exposure time</td>
<td>72 h</td>
</tr>
<tr>
<td>Result</td>
<td>Not irritating.</td>
</tr>
<tr>
<td>Method</td>
<td>OECD 404</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Irritation to eyes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Result</td>
<td>Not irritating.</td>
</tr>
<tr>
<td>Method</td>
<td>OECD 405</td>
</tr>
</tbody>
</table>

Irritation to respiratory tract

The product has not been tested.

**Sensitisation**

**In case of skin contact**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Skin sensitisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Guinea pig</td>
</tr>
<tr>
<td>Result</td>
<td>Not sensitising.</td>
</tr>
</tbody>
</table>

**In case of inhalation**

The product has not been tested.

**Repeated dose toxicity (subacute, subchronic, chronic)**

**Subacute oral toxicity**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>NOAEL(C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure route</td>
<td>Oral</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>Effective dose</td>
<td>=&gt; 1000 mg/kg</td>
</tr>
<tr>
<td>Exposure time</td>
<td>90 d</td>
</tr>
</tbody>
</table>

**Subacute dermal toxicity**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>NOAEL(C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure route</td>
<td>Dermal</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>Effective dose</td>
<td>=&gt; 1600 mg/kg</td>
</tr>
<tr>
<td>Exposure time</td>
<td>28 d</td>
</tr>
<tr>
<td>Method</td>
<td>OECD 410</td>
</tr>
</tbody>
</table>
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)
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
Parameter : LC50
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 0,0016 mg/l
Exposure time : 96 h
Chronic (long-term) fish toxicity
- Parameter: NOEC
- Species: Oncorhynchus mykiss (Rainbow trout)
- Evaluation parameter: Chronic (long-term) fish toxicity
- Effective dose: $\geq 0.0014$ mg/l
- Exposure time: 90 d
- Method: OECD 204

Acute (short-term) daphnia toxicity
- Parameter: EC50
- Species: Daphnia magna (Big water flea)
- Evaluation parameter: Acute (short-term) daphnia toxicity
- Effective dose: $> 0.0029$ mg/l
- Exposure time: 48 h
- Method: OECD 202

Chronic (long-term) daphnia toxicity
- Parameter: NOEC
- Species: Daphnia magna (Big water flea)
- Evaluation parameter: Chronic (long-term) daphnia toxicity
- Effective dose: $\geq 0.0015$ mg/l
- Exposure time: 21 d
- Method: OECD 210

Parameter: LOEC
- Species: Daphnia magna (Big water flea)
- Evaluation parameter: Chronic (long-term) daphnia toxicity
- Effective dose: $> 0.0015$ mg/l
- Exposure time: 21 d
- Method: OECD 210

Acute (short-term) algae toxicity
- Parameter: EC50
- Species: Pseudokirchneriella subcapitata
- Evaluation parameter: Acute (short-term) algae toxicity
- Effective dose: $> 0.0012$ mg/l
- Exposure time: 96 h
- Method: OECD 201

Chronic (long-term) algae toxicity
The product has not been tested.

Bacteria toxicity
- Parameter: EC50
- Species: Bacteria toxicity
- Effective dose: $> 2000$ mg/l
- Exposure time: 3 h

Terrestrial toxicity
The product has not been tested.

Toxicity to terrestrial plants
The product has not been tested.

Effects in sewage plants
12.2 Persistence and degradability

**Abiotic degradation**

The product has not been tested.

**Biodegradation**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Biodegradation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective dose</td>
<td>0,14 %</td>
</tr>
<tr>
<td>Exposure time</td>
<td>28 d</td>
</tr>
<tr>
<td>Method</td>
<td>OECD 310</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pimephales promelas (fathead minnow)</td>
<td></td>
</tr>
<tr>
<td>Concentration</td>
<td>&gt;= 500</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

The product has not been tested.

**Adsorption/Desorption**

12.5 Results of PBT and vPvB assessment

This substance meets the vPvB criteria of REACh, Annex XIII. Remarks: Decamethylcyclopentasiloxane (D5) meets the current REACh Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs.

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**

<table>
<thead>
<tr>
<th>Waste treatment options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appropriate disposal / Product</td>
<td>The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.</td>
</tr>
<tr>
<td>Appropriate disposal / Package</td>
<td>Handle contaminated packages in the same way as the substance itself.</td>
</tr>
</tbody>
</table>

**SECTION 14: Transport information**

14.1 UN number

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
National regulations
Water hazard class (WGK)
Class : 1 (Slightly hazardous to water) Classification according to VvVvS

Additional information
Substance/product listed in the following inventories
AICS REACH ENCS (Class 1 and 2) IECSC TSCI KECI DSL/NDSL NZIoC PICCS TSCA

15.2 Chemical safety assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes
02. Label elements

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 Dosie, 50%
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
PTB - 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)
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.