

Bergolin Putty 4D9700-HighTemp, ca. RAL7038

Revision date: 31.01.2024

Product code: A1022286

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

1.1. Product identifier

Bergolin Putty 4D9700-HighTemp, ca. RAL7038

Product group: Produkt
UFI: J6EW-0PV7-R4EG-VDKS

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

Use of the substance/mixture

Putty

1.3. Details of the supplier of the safety data sheet

Company name: Bergolin GmbH & Co. KG
Street: Sachsenring 1
Place: D-27711 Osterholz-Scharmbeck
Telephone: +49 4795 95899 0
e-mail: info@bergolin.de
Contact person: Gefahrstoffmanagement
e-mail: sdb@bergolin.de
Internet: www.bergolin.de
Responsible Department: Sicherheitsdatenblattverwaltung

1.4. Emergency telephone number: +49 4795 95899 0
Only available during office hours. (8-16 CET)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, 1,1',4,4'-tetraethyl ester fumarate
Bis(dodecylthio)dimethylstanane
N,N'-Ethylenebis(12-hydroxyoctadecanamide)

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 IF ON SKIN: Wash with plenty of

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| | |
|-----------|--|
| P321 | Specific treatment (see ... on this label). |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents/container to |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

polyurethane system

Hazardous components

| CAS No | Chemical name | Quantity |
|-------------|--|------------------|
| | EC No | Index No |
| | Classification (GB CLP Regulation) | REACH No |
| 136210-32-7 | Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, 1,1',4,4'-tetraethyl ester | 15 - < 20 % |
| | | 01-0000015937-58 |
| | Skin Sens. 1, Aquatic Chronic 3; H317 H412 | |
| 623-91-6 | fumarate | < 1 % |
| | 210-819-7 | |
| | Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H302 H315 H317 H335 | |
| 51287-84-4 | Bis(dodecylthio)dimethylstanane | < 1 % |
| | 257-111-4 | 01-2120769343-50 |
| | Acute Tox. 4, Skin Sens. 1A, Aquatic Chronic 3; H302 H317 H412 | |
| 123-26-2 | N,N'-Ethylenebis(12-hydroxyoctadecanamide) | < 1 % |
| | 204-613-6 | 01-2119978265-26 |
| | Skin Sens. 1B, Aquatic Chronic 3; H317 H412 | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-------------|-----------|---|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 136210-32-7 | | Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, 1,1',4,4'-tetraethyl ester | 15 - < 20 % |
| | | inhalation: LC50 = >4,224 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg | |
| 623-91-6 | 210-819-7 | fumarate | < 1 % |
| | | oral: ATE = 500 mg/kg | |
| 51287-84-4 | 257-111-4 | Bis(dodecylthio)dimethylstanane | < 1 % |
| | | oral: LD50 = 1150 mg/kg | |
| 123-26-2 | 204-613-6 | N,N'-Ethylenebis(12-hydroxyoctadecanamide) | < 1 % |
| | | oral: LD50 = >2000 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.
Never give anything by mouth to an unconscious person or a person with cramps.
If unconscious place in recovery position and seek medical advice.

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After inhalation

Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.
After contact with skin, wash immediately with plenty of water and soap.
Do not wash with: Solvents/Thinner.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.
Hazardous decomposition products: carbon black. Health hazard.
Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Safe handling: see section 7
Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Collect in closed and suitable containers for disposal. Disposal: see section 13
Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advice on safe handling

Solvent:

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof electrical equipment. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Notice the directions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|---|-----|-------------------|-----------|---------------|--------|
| 1317-65-3 | Calcium carbonate, respirable | - | 4 | | TWA (8 h) | WEL |
| 14807-96-6 | Talc respirable dust | - | 1 | | TWA (8 h) | WEL |
| - | Tin compounds, organic, except Cyhexatin (ISO), (as Sn) | - | 0.1 | | TWA (8 h) | WEL |
| | | - | 0.2 | | STEL (15 min) | WEL |

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|---|----------------|----------|------------------------|
| 136210-32-7 | Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediy)]bis-, 1,1',4,4'-tetraethyl ester | | | |
| Worker DNEL, long-term | | inhalation | systemic | 84 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 672 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 11,9 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 14,5 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 14,5 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 4,2 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 4,2 mg/kg bw/day |
| 123-26-2 | N,N'-Ethylenebis(12-hydroxyoctadecanamide) | | | |
| Worker DNEL, long-term | | inhalation | local | 3,35 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 0,83 mg/m ³ |

PNEC values

| CAS No | Substance | Value |
|--|---|---------------|
| 136210-32-7 | Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediy)]bis-, 1,1',4,4'-tetraethyl ester | |
| Freshwater | | 0,00013 mg/l |
| Marine water | | 0,000013 mg/l |
| Freshwater sediment | | 0,21 mg/kg |
| Marine sediment | | 0,02 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 31,1 mg/l |
| Soil | | 0,1 mg/kg |
| 123-26-2 | N,N'-Ethylenebis(12-hydroxyoctadecanamide) | |
| Micro-organisms in sewage treatment plants (STP) | | 0,1 mg/l |

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

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

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: butyl rubber or Viton (necessarily consider the permanence of the material and See information supplied by the manufacturer.

Breakthrough time (maximum wearing time): ____ min.

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Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.
Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

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

| | |
|-----------------|----------------|
| Physical state: | liquid |
| Colour: | grey |
| Odour: | characteristic |

Test method**Changes in the physical state**

| | |
|---|----------------------------------|
| Boiling point or initial boiling point and boiling range: | >200 °C |
| Flash point: | > 100 °C DIN 53213 |
| Auto-ignition temperature: | 335 °C |
| Flow time: (at 20 °C) | > 100 6 DIN EN ISO 2431 |
| Vapour pressure: (at 20 °C) | <0,1 hPa |
| Density (at 20 °C): | 1,58 g/cm ³ DIN 53217 |

9.2. Other information**Other safety characteristics**

| | |
|--------------------------|---------------------------------|
| Solvent separation test: | <3 % (Land transport (ADR/RID)) |
| Solvent content: | 0,06 % |
| Solid content: | 99,94 % |

Further Information**SECTION 10: Stability and reactivity****10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.6. Hazardous decomposition products

Nitrogen oxides (NO_x), carbon black, Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation**

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Acute toxicity

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

| CAS No | Chemical name | | | | |
|-------------|--|------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 136210-32-7 | Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, 1,1',4,4'-tetraethyl ester | | | | |
| | oral | LD50 >2000 mg/kg | Rat | | |
| | dermal | LD50 >2000 mg/kg | Rat | | |
| | inhalation (4 h) dust/mist | LC50 >4,224 mg/l | Rat | | |
| 623-91-6 | fumarate | | | | |
| | oral | ATE 500 mg/kg | | | |
| 51287-84-4 | Bis(dodecylthio)dimethylstanane | | | | |
| | oral | LD50 1150 mg/kg | | | |
| 123-26-2 | N,N'-Ethylenebis(12-hydroxyoctadecanamide) | | | | |
| | oral | LD50 >2000 mg/kg | Rat | | |

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, 1,1',4,4'-tetraethyl ester; fumarate; Bis(dodecylthio)dimethylstanane; N,N'-Ethylenebis(12-hydroxyoctadecanamide))

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.
Symptoms: Headache, Dizziness, Drowsiness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

Further information

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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SECTION 12: Ecological information

12.1. Toxicity

| CAS No | Chemical name | | | | | |
|-------------|--|------------------|-----------|-------------------------------------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 136210-32-7 | Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, 1,1',4,4'-tetraethyl ester | | | | | |
| | Acute fish toxicity | LC50 66 mg/l | 96 h | Brachydanio rerio (zebra-fish) | | |
| | Acute algae toxicity | ErC50 113 mg/l | 72 h | Desmodesmus subspicatus | | |
| | Acute crustacea toxicity | EC50 88,6 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| | Acute bacteria toxicity | (EC50 3110 mg/l) | 3 h | Activated sludge | | |
| 51287-84-4 | Bis(dodecylthio)dimethylstanane | | | | | |
| | Acute algae toxicity | ErC50 270 mg/l | 72 h | | | |
| | Acute crustacea toxicity | EC50 32 mg/l | 48 h | | | |
| | Algae toxicity | NOEC 10 mg/l | 3 d | | | |
| 123-26-2 | N,N'-Ethylenebis(12-hydroxyoctadecanamide) | | | | | |
| | Acute fish toxicity | LL50 >10 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | | |
| | Acute algae toxicity | ErC50 >100 mg/l | 72 h | | | |
| | Acute crustacea toxicity | EL50 >10 mg/l | 48 h | Daphnia magna (Big water flea) | | |

12.2. Persistence and degradability

| CAS No | Chemical name | | | |
|----------|--|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 123-26-2 | N,N'-Ethylenebis(12-hydroxyoctadecanamide) | | | |
| | OECD Guideline 301 D (Closed Bottle Test) | 22% | 28 | |
| | inherently biodegradable | | | |

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---------------------------------|---------|
| 51287-84-4 | Bis(dodecylthio)dimethylstanane | 13473 |

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

There are no data available on the mixture itself.
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal recommendations

Do not allow to enter into surface water or drains.
Recycle according to official regulations.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.
Recycle according to official regulations.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 20, Entry 75

2010/75/EU (VOC): 0,057 % (0,893 g/l)

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,9,15.

Abbreviations and acronyms

ADR - Accord européen relatif transport des marchandises dangereuses par route ATE - Acute Toxicity Estimate / Schätzwert akuter Toxizität; BCF - Biokonzentrationsfaktor (Bio-Concentration Factor); CAS - Chemical Abstracts Service; CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures; CMR - Carcinogenität, Mutagenität, Reproduktionstoxizität; ECHA - European Chemicals Agency / Europäische Chemikalienagentur (in Helsinki); EC50 - Effective Concentration 50%; ErC50 - Average specific

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growth rate; EINECS - European Inventory of Existing Commercial Chemical Substances; DNEL - „Derived No-Effect Level“; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods Code; LC50 - Lethal Concentration 50%; LD50 - Lethal dose 50%; NOAEC/L - No Observed Adverse Effect Concentration / Level; NOEC - No Observed Effect Concentration; OECD - Organization for Economic Cooperation and Development; PBT - Persistent, Bioaccumulative, Toxic (persistent, bioakkumulativ, toxisch); PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation and Authorization of Chemicals; RID - Règlement International concernant le transport de marchandises dangereuses par chemin de fer; SCL - Specific Concentration Level; STOT - Specific Target Organ Toxicity; SVHC - Stoff sehr hoher Besorgnis (Substance of Very High Concern); VOC - Volatile Organic Compounds; WGK - Wassergefährdungsklasse

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|--------------------|--------------------------|
| Skin Sens. 1; H317 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)