

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
Print date: 03.01.25 Revision date: 03.01.25  
Version: 1-0 Issue date: 08.10.24

EN  
Page 1 / 10

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

**1.1. product identifiers**

Article No. (manufacturer/supplier) 151-30698CAR  
Trade name/designation CARBOCOAT 199 BEIGE  
L-30698  
UFI: QXW0-30M0-E00K-SN17

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

CARBOLINE FRANCE S.A.S.  
7, Mail Barthélemy Thimonnier Telephone: 0033 1 60 06 55 66  
77185 LOGNES Telefax: 0033 160 06 55 70

**Department responsible for information:**

Carboline.France@stoncor.com  
0033 1 60 06 55 66

Emergency telephone:  
Only available during office hours.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

\*

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

|                          |                                      |  |
|--------------------------|--------------------------------------|--|
| Flam. Liq. 3 / H226      | Flammable liquids                    | Flammable liquid and vapour.                                       |
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.  |
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.                                     |
| STOT SE 3 / H335         | STOT-single exposure                 | May cause respiratory irritation.                                  |
| STOT RE 2 / H373         | STOT-repeated exposure               | May cause damage to organs through prolonged or repeated exposure. |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment | Toxic to aquatic life with long lasting effects.                   |

**2.2. Label elements**

\*

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

**Hazard pictograms**



Warning

**Hazard statements**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapour.  
P271 Use only outdoors or in a well-ventilated area.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Keep locked up.  
P501 Dispose of contents/container to industrial incineration plant.

**Hazard components for labelling**

Xylene

**Supplemental hazard information**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  
EUH208 Contains Neodecanoic acid, cobalt salt. May produce an allergic reaction.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
Print date: 03.01.25 Revision date: 03.01.25  
Version: 1-0 Issue date: 08.10.24

EN  
Page 2 / 10

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

\*

Description Colour

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

| EC No.<br>CAS No.<br>Index No.          | REACH No.<br>Designation<br>classification // Remark  | weight-%  |
|---|---|-----------|
| 215-535-7<br>1330-20-7<br>601-022-00-9  | 01-2119488216-32<br>Xylene<br>Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H335 | 10 - 20   |
| 918-668-5<br>64742-95-6                 | 01-2119455851-35<br>Hydrocarbons, C9, aromatic<br>STOT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226 / EUH066                            | 5 - 10    |
| 231-944-3<br>7779-90-0<br>030-011-00-6  | 01-2119485044-40-0001<br>trizinc bis(orthophosphate)<br>Aquatic Acute 1 H400 / Aquatic Chronic 1 H410   | 2,5 - 5   |
| 919-857-5<br>64742-48-9<br>649-327-00-6 | 01-2119463258-33<br>hydrocarbons, C9-C11,n-alkanes, iso-alkanes,<2% aromatics<br>Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 / EUH066                                       | 2,5 - 5   |
| 202-849-4<br>100-41-4<br>601-023-00-4   | 01-2119489370-35<br>ethylbenzene<br>Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304   | 1 - 2,5   |
| 205-249-0<br>136-51-6                   | 01-2119978297-19<br>Calcium bis(2-ethylhexanoate)<br>Eye Dam. 1 H318 / Repr. 2 H361   | 0,1 - 0,5 |
| 248-373-0<br>27253-31-2                 | 01-2119970733-31<br>Neodecanoic acid, cobalt salt<br>Acute Tox. 4 H302 / Skin Sens. 1A H317 / STOT RE 1 H372 / Aquatic Chronic 3 H412   | < 0,1     |

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
Print date: 03.01.25 Revision date: 03.01.25  
Version: 1-0 Issue date: 08.10.24

EN  
Page 3 / 10

**4.2. Most important symptoms and effects, both acute and delayed**

In all cases of doubt, or when symptoms persist, seek medical advice.

**4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

**5.2. Special hazards arising from the substance or mixture**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
Print date: 03.01.25 Revision date: 03.01.25  
Version: 1-0 Issue date: 08.10.24

EN  
Page 4 / 10

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

8.1. **Control parameters**

\*

**Occupational exposure limit values:**

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 441 mg/m<sup>3</sup>; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m<sup>3</sup>; 100 ppm

WEL, STEL: 552 mg/m<sup>3</sup>; 125 ppm

Remark: (may be absorbed through the skin)

**Additional information**

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

**DNEL:**

Calcium bis(2-ethylhexanoate)

EC No. 205-249-0 / CAS No. 136-51-6

DNEL long-term inhalative (systemic), Workers: 39,98 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 9,86 mg/m<sup>3</sup>

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

DNEL long-term dermal (systemic), Workers: 180 mg/kg

DNEL acute inhalative (local), Workers: 289 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 289 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 77 mg/m<sup>3</sup>

DNEL long-term dermal (systemic), Consumer: 108 mg/kg

DNEL acute inhalative (local), Consumer: 174 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Consumer: 174 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 14,8 mg/m<sup>3</sup>

Hydrocarbons, C9, aromatic

EC No. 918-668-5 / CAS No. 64742-95-6

DNEL long-term dermal (systemic), Workers: 25 mg/kg

DNEL long-term inhalative (systemic), Workers: 150 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 11 mg/kg

DNEL long-term dermal (systemic), Consumer: 11 mg/kg

DNEL long-term inhalative (systemic), Consumer: 32 mg/m<sup>3</sup>

**PNEC:**

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

PNEC aquatic, freshwater: 0,327 mg/L

PNEC aquatic, marine water: 0,327 mg/L

PNEC sediment, freshwater: 12,46 mg/kg

PNEC sediment, marine water: 12,46 mg/kg

PNEC, soil: 2,31 mg/kg

PNEC sewage treatment plant (STP): 6,58 mg/L

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
Print date: 03.01.25 Revision date: 03.01.25  
Version: 1-0 Issue date: 08.10.24

EN  
Page 5 / 10

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties \*

|   |  |
|---|--|
| <b>Physical state:</b>                          | <b>Liquid</b>  |
| <b>Colour:</b>                                  | <b>refer to label</b>  |
| <b>Odour:</b>                                   | <b>characteristic</b>  |
| <b>Odour threshold:</b>                         | <b>not applicable</b>  |
| <b>pH at 20 °C:</b>                             | <b>not applicable</b>  |
| <b>Melting point/freezing point:</b>            | <b>1 843 °C</b><br>Source: Titanium dioxide  |
| <b>Initial boiling point and boiling range:</b> | <b>137 °C</b><br>Source: Xylene  |
| <b>Flash point:</b>                             | <b>23 °C</b><br>Method: DIN 53213  |
| <b>Lower and upper explosion limit:</b>         |  |
| <b>Lower explosion limit:</b>                   | <b>1,13 Vol-%</b>  |
| <b>Upper explosion limit:</b>                   | <b>7,8 Vol-%</b><br>Source: ethylbenzene   |
| <b>Vapour pressure at 20 °C:</b>                | <b>1,829 mbar</b>  |
| <b>Relative vapour density:</b>                 | <b>not applicable</b>  |
| <b>Density and/or relative density:</b>         |  |
| <b>Density at 20 °C:</b>                        | <b>1,55 g/cm<sup>3</sup></b>   |
| <b>Solubility(ies):</b>                         |  |
| <b>Water solubility at 20 °C:</b>               | <b>insoluble</b>   |
| <b>Partition coefficient: n-octanol/water:</b>  | <b>see section 12</b>  |
| <b>Auto-ignition temperature:</b>               | <b>270 °C</b><br>Source: hydrocarbons, C9-C11,n-alkanes, iso-alkanes,<2% aromatics |
| <b>Decomposition temperature:</b>               | <b>not applicable</b>  |
| <b>Viscosity at 20 °C:</b>                      | <b>&gt; 150 s 4 mm</b><br>Method: DIN 53211  |
| <b>Kinematic viscosity (40°C):</b>              | <b>&gt; 70 mm<sup>2</sup>/s</b>  |

9.2. Other information \*

|                         |                    |
|-------------------------|--------------------|
| <b>Solid content:</b>   | <b>71 weight-%</b> |
| <b>solvent content:</b> |                    |

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
Print date: 03.01.25 Revision date: 03.01.25  
Version: 1-0 Issue date: 08.10.24

EN  
Page 6 / 10

**Organic solvents:** 29 weight-%  
**Water:** 0 weight-%

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

#### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

#### 10.5. Incompatible materials

not applicable

#### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

\*

##### Acute toxicity

Titanium dioxide

oral, LD50, Rat: > 5 000 mg/kg

ethylbenzene

oral, LD50, Rat: > 3 500 mg/kg

dermal, LD50, Rabbit: > 15 000 mg/kg

inhalative (vapours), LC50, Rat: > 20 mg/L (4 h)

Xylene

oral, LD50, Rat: 4 300 mg/kg

dermal, LD50, Rabbit: 1 700 mg/kg

inhalative (vapours), LC50, Rat: 21,7 mg/L (4 h)

Hydrocarbons, C9, aromatic

oral, LD50, Rat: > 3 492 mg/kg

inhalative (Gases), LC50, Rat (4 h)

inhalative (vapours), LC50, Rat: 10,2 mg/L (4 h)

hydrocarbons, C9-C11, n-alkanes, iso-alkanes, <2% aromatics

dermal, LD50, Rat: > 5 000 mg/kg

##### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

##### Respiratory or skin sensitisation

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

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

##### STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

##### Aspiration hazard

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

##### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
Print date: 03.01.25 Revision date: 03.01.25  
Version: 1-0 Issue date: 08.10.24

EN  
Page 7 / 10

and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

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

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

ethylbenzene

Fish toxicity, LC50: > 10 mg/L (96 h)

Daphnia toxicity, EC50: > 1,8 mg/L (48 h)

Algae toxicity, ErC50: 3,6 mg/L (96 h)

Xylene

Fish toxicity, LC50 1 - 10 mg/L (96 h)

Daphnia toxicity, EC50 1 - 10 mg/L (48 h)

Algae toxicity, ErC50 1 - 10 mg/L

hydrocarbons, C9-C11,n-alkanes, iso-alkanes, <2% aromatics

Fish toxicity, LC50: > 1 000 mg/L (96 h)

Daphnia toxicity, EC50: > 1 000 mg/L (48 h)

Algae toxicity, ErC50: > 1 000 mg/L

**Long-term Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

Toxicological data are not available.

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1263

**14.2. UN proper shipping name**

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
 Print date: 03.01.25 Revision date: 03.01.25  
 Version: 1-0 Issue date: 08.10.24

EN  
 Page 8 / 10

|   |                  |
|---|------------------|
| Land transport (ADR/RID):               | Paint            |
| Sea transport (IMDG):                   | PAINT            |
| Air transport (ICAO-TI / IATA-DGR):     | Paint            |
| <b>14.3. Transport hazard class(es)</b> | 3                |
| <b>14.4. Packing group</b>              | III              |
| <b>14.5. Environmental hazards</b>      |                  |
| Land transport (ADR/RID)                | UMWELTGEFÄHRDEND |
| Marine pollutant                        | p                |

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
 Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

Tunnel restriction code D/E  
 in packages <= 5 litres NOT SUBJECT TO CLASS 3

**Sea transport (IMDG)**

EmS-No. F-E, S-E  
 in packages <= 5 litres Transport in accordance with 2.3.2.5 of the IMDG Code.

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value (in g/L): 442

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/i) ; VOC limit value: 500 g/l  
 442

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
 Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

**15.2. Chemical Safety Assessment** \*

**For the following substances of this mixture a chemical safety assessment has been carried out:**

| EC No.<br>CAS No.       | Designation   | REACH No.             |
|-------------------------|---|-----------------------|
| 215-535-7<br>1330-20-7  | Xylene  | 01-2119488216-32      |
| 918-668-5<br>64742-95-6 | Hydrocarbons, C9, aromatic                                | 01-2119455851-35      |
| 231-944-3<br>7779-90-0  | trizinc bis(orthophosphate)                               | 01-2119485044-40-0001 |
| 919-857-5<br>64742-48-9 | hydrocarbons, C9-C11,n-alkanes, iso-alkanes,<2% aromatics | 01-2119463258-33      |
| 202-849-4<br>100-41-4   | ethylbenzene  | 01-2119489370-35      |
| 205-249-0<br>136-51-6   | Calcium bis(2-ethylhexanoate)                             | 01-2119978297-19      |

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**



Article No.: 151-30698CAR CARBOCOAT 199 BEIGE  
 Print date: 03.01.25 Revision date: 03.01.25  
 Version: 1-0 Issue date: 08.10.24

EN  
 Page 9 / 10

248-373-0  
 27253-31-2

Neodecanoic acid, cobalt salt

01-2119970733-31

**SECTION 16: Other information**

\*

**Full text of classification in section 3**

|                          |                                      |  |
|--------------------------|--------------------------------------|--|
| Flam. Liq. 3 / H226      | Flammable liquids                    | Flammable liquid and vapour.   |
| Acute Tox. 4 / H312      | Acute toxicity (dermal)              | Harmful in contact with skin.  |
| Acute Tox. 4 / H332      | Acute toxicity (inhalative)          | Harmful if inhaled.  |
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.  |
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.   |
| Asp. Tox. 1 / H304       | Aspiration hazard                    | May be fatal if swallowed and enters airways.  |
| STOT RE 2 / H373         | STOT-repeated exposure               | May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). |
| STOT SE 3 / H335         | STOT-single exposure                 | May cause respiratory irritation.  |
| STOT SE 3 / H336         | STOT-single exposure                 | May cause drowsiness or dizziness.   |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment | Toxic to aquatic life with long lasting effects.   |
| Aquatic Acute 1 / H400   | Hazardous to the aquatic environment | Very toxic to aquatic organisms.   |
| Aquatic Chronic 1 / H410 | Hazardous to the aquatic environment | Very toxic to aquatic life with long lasting effects.  |
| Flam. Liq. 2 / H225      | Flammable liquids                    | Highly flammable liquid and vapour.  |
| Eye Dam. 1 / H318        | Serious eye damage/eye irritation    | Causes serious eye damage.   |
| Repr. 2 / H361           | Reproductive toxicity                | Suspected of damaging the unborn child.  |
| Acute Tox. 4 / H302      | Acute toxicity (oral)                | Harmful if swallowed.  |
| Skin Sens. 1A / H317     | Respiratory or skin sensitisation    | May cause an allergic skin reaction.   |
| STOT RE 1 / H372         | STOT-repeated exposure               | Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).    |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful to aquatic life with long lasting effects.   |

**Classification procedure**

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

|                   |                                      |                        |
|-------------------|--------------------------------------|------------------------|
| Flam. Liq. 3      | Flammable liquids                    | On basis of test data. |
| Skin Irrit. 2     | Skin corrosion/irritation            | Calculation method.    |
| Eye Irrit. 2      | Serious eye damage/eye irritation    | Calculation method.    |
| STOT SE 3         | STOT-single exposure                 | Calculation method.    |
| STOT RE 2         | STOT-repeated exposure               | Calculation method.    |
| Aquatic Chronic 2 | Hazardous to the aquatic environment | Calculation method.    |

**Abbreviations and acronyms**

|           |   |
|-----------|---|
| ADR       | European Agreement concerning the International Carriage of Dangerous Goods by Road                               |
| OEL       | Occupational Exposure Limit Value   |
| BLV       | Biological Limit Value  |
| CAS       | Chemical Abstracts Service  |
| CLP       | Classification, Labelling and Packaging   |
| CMR       | Carcinogenic, Mutagenic and Reprotoxic  |
| DIN       | German Institute for Standardization / German industrial standard   |
| DNEL      | Derived No-Effect Level   |
| EAKV      | European Waste Catalogue Directive  |
| EC        | Effective Concentration   |
| EC        | European Community  |
| EN        | European Standard   |
| IATA-DGR  | International Air Transport Association – Dangerous Goods Regulations   |
| IBC Code  | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk               |
| ICAO-TI   | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods   |
| ISO       | International Organization for Standardization  |

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



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EN  
Page 10 / 10

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|        |   |
|--------|---|
| LC     | Lethal Concentration  |
| LD     | Lethal Dose   |
| MARPOL | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships |
| OECD   | Organisation for Economic Cooperation and Development                                       |
| PBT    | persistent, bioaccumulative, toxic  |
| PNEC   | Predicted No Effect Concentration   |
| REACH  | Registration, Evaluation, Authorisation and Restriction of Chemicals                        |
| RID    | Regulations concerning the International Carriage of Dangerous Goods by Rail                |
| UN     | United Nations  |
| VOC    | Volatile Organic Compounds  |
| vPvB   | very persistent and very bioaccumulative  |

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version