

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

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

1.1 Product identifier

Trade name : Capalac Disbocolor 493 RAL 7004

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

Use of the Sub-
stance/Mixture : Solvent-borne coatings

Recommended restrictions
on use : within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : Caparol Farben Lacke GmbH
Roßdörfer Straße 50
64372 Ober-Ramstadt

Telephone : +496154710
Telefax : +4961547170222

Website :
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone

Emergency telephone 1 : +49613284463 GBK GmbH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure, Category 2





H373: May cause damage to organs through prolonged or repeated exposure.

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	   
Signal Word	:	Warning
Hazard Statements	:	H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary Statements	:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe mist or vapors. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P391 Collect spillage.

SAFETY DATA SHEET

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by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version 4.0	Revision Date: 08.11.2023	SDS Number: 6007907	Date of last issue: 02.11.2023 Date of first issue: 22.11.2019
----------------	------------------------------	------------------------	---

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified
naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine
dodecane-1-thiol

Additional Labeling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35,	STOT SE 3; H336 STOT SE 3; H335 Aquatic Chronic 2; H411	>= 25 - < 30

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version 4.0 Revision Date: 08.11.2023 SDS Number: 6007907 Date of last issue: 02.11.2023
Date of first issue: 22.11.2019

	01-2119486773-24	Asp. Tox. 1; H304 Flam. Liq. 3; H226 EUH066	
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	$\geq 10 - < 20$
Carbamide resin	Not Assigned	Aquatic Chronic 3; H412	$\geq 2,5 - < 10$
trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 2,5 - < 10$
naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha	64742-82-1 265-185-4 649-330-00-2 01-2119458049-33, 01-2119473977-17	Asp. Tox. 1; H304 STOT RE 1; H372 (Central nervous system) Aquatic Chronic 3; H412	$\geq 1 - < 2,5$
butan-1-ol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38, 01-2120076484-50	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	$\geq 1 - < 3$
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Repr. 2; H361f	$\geq 0,25 - < 1$
Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	162627-17-0 01-2119970640-38	Skin Sens. 1; H317	$\geq 0,1 - < 1$
dodecane-1-thiol	112-55-0 203-984-1 01-2119491318-31	Skin Corr. 1C; H314 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	$\geq 0,0025 - < 0,025$

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

Substances with a workplace exposure limit :			
Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$)	14807-96-6 238-877-9 01-2120140278-58		$\geq 1 - < 10$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Never give anything by mouth to an unconscious person.
If you feel unwell, seek medical advice (show the label where possible).
Move out of dangerous area.
First aider needs to protect himself.
- If inhaled : Call a physician.
If breathing is irregular or stopped, administer artificial respiration.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
Move to fresh air.
- In case of skin contact : Do NOT use solvents or thinners.
In case of contact, immediately flush skin with soap and plenty of water.
Take off all contaminated clothing immediately.
- In case of eye contact : If eye irritation persists: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed : Seek medical advice.
Clean mouth with water and drink afterwards plenty of water.
If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.
In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Ensure adequate ventilation.
Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Do not flush into surface water or sanitary sewer system.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.
, For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Non-sparking tools should be used.
For personal protection see section 8.
Avoid exceeding the given occupational exposure limits (see section 8).
Provide sufficient air exchange and/or exhaust in work rooms.

In addition, the current technical information for this product and its application on www.caparol.com must be observed.

Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Avoid contact with the skin and the eyes. Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : This information is not available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version 4.0 Revision Date: 08.11.2023 SDS Number: 6007907 Date of last issue: 02.11.2023
Date of first issue: 22.11.2019

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		BM (Alveolar dust fraction)	0,5 mg/m ³	DE TRGS 527
butan-1-ol	71-36-3	AGW	100 ppm 310 mg/m ³	DE TRGS 900
	Peak-limit category: 1;(I)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		BM (Alveolar dust fraction)	0,5 mg/m ³	DE TRGS 527

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
butan-1-ol	71-36-3	1-butanol: 2 mg/g creatinine (Urine)	Before next shift	TRGS 903
		1-butanol: 10 mg/g	Immediately after	TRGS 903

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version 4.0 Revision Date: 08.11.2023 SDS Number: 6007907 Date of last issue: 02.11.2023
Date of first issue: 22.11.2019

		creatinine (Urine)	exposure or after working hours	
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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	10,00 mg/m ³
trizinc bis(orthophosphate)	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,50 mg/m ³
	Workers	Inhalation	Long-term systemic effects	5,00 mg/m ³
	Workers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
butan-1-ol	Consumers	Inhalation	Long-term local effects	55,00 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	3,13 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	310,00 mg/m ³
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Consumers	Inhalation	Acute local effects	0,58 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	1,25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,58 mg/m ³
	Consumers	Inhalation	Acute systemic effects	0,58 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1,25 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	1,25 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	1,25 mg/kg bw/day

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version 4.0 Revision Date: 08.11.2023 SDS Number: 6007907 Date of last issue: 02.11.2023
Date of first issue: 22.11.2019

	Workers	Inhalation	Acute systemic effects	2,35 mg/m ³
	Workers	Inhalation	Acute local effects	2,35 mg/m ³
	Workers	Inhalation	Long-term systemic effects	2,35 mg/m ³
	Workers	Skin contact	Acute systemic effects	2,50 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	2,50 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	Sewage treatment plant	100 mg/l
	Fresh water	0,184 mg/l
	Soil	100 mg/kg dry weight (d.w.)
	Sea water	0,0184 mg/l
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
trizinc bis(orthophosphate)	Sea sediment	100 mg/kg dry weight (d.w.)
	Intermittent use/release	0,193 mg/l
	Sea sediment	56,5 mg/kg dry weight (d.w.)
	Fresh water	20,6 µg/l
	Soil	35,6 mg/kg dry weight (d.w.)
butan-1-ol	Sewage treatment plant	100 µg/l
	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
	Sea water	6,1 µg/l
	Sewage treatment plant	2476 mg/l
	Fresh water	0,082 mg/l
	Intermittent use/release	2,25 mg/l
	Fresh water sediment	0,178 mg/kg dry weight (d.w.)
	Sea water	0,0082 mg/l
	Sea sediment	0,0178 mg/kg dry weight (d.w.)
	Soil	0,015 mg/kg dry weight (d.w.)
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Sea water	0,00022 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

	Soil	0,21 mg/kg dry weight (d.w.)
	Fresh water	0,0022 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	1,05 mg/kg dry weight (d.w.)
	Intermittent use/release	0,009 mg/l
	Sea sediment	0,11 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye/face protection : DGUV Regulation 112-192 - Use of eye and face protection
Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber
Glove thickness : 0,2 mm
Protective index : Class 3

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.
DGUV Regulation 112-195 - Use of protective gloves

Skin and body protection : Safety shoes
Long sleeved clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

Remove and wash contaminated clothing before re-use.
During spray application: impervious clothing

Respiratory protection : Roller application or brushing: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

DGUV Regulation 112-190 - Use of breathing equipment

During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: gray
Odor	: No data available
Odor Threshold	: Not relevant
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Flash point	: 44 °C
Autoignition temperature	: not determined
Decomposition temperature	: Not applicable
pH	: 6,95 Concentration: 10 %
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 20,5 mm ² /s (40 °C)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version 4.0	Revision Date: 08.11.2023	SDS Number: 6007907	Date of last issue: 02.11.2023 Date of first issue: 22.11.2019
----------------	------------------------------	------------------------	---

Solubility(ies) Water solubility	:	partly miscible
Partition coefficient: n- octanol/water	:	not determined
Vapor pressure	:	not determined
Relative density	:	not determined
Density	:	1,1600 g/cm ³
Relative vapor density	:	Heavier than air.

9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	Not applicable
Flammability (liquids)	:	Sustains combustion
Evaporation rate	:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapors may form explosive mixture with air. Hazardous decomposition products formed under fire conditions.
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10.4 Conditions to avoid

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with acids and bases.
Incompatible with oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

|| Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

butan-1-ol:

Acute oral toxicity : LD50 (Rat): 790 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3.430 mg/kg

Skin corrosion/irritation

|| Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

|| Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

|| May cause an allergic skin reaction.

Respiratory sensitization

|| Not classified based on available information.

Germ cell mutagenicity

|| Not classified based on available information.

Carcinogenicity

|| Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

Reproductive toxicity

|| Not classified based on available information.

STOT-single exposure

|| May cause respiratory irritation.
|| May cause drowsiness or dizziness.

STOT-repeated exposure

|| May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

|| Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

dodecane-1-thiol:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Partition coefficient: n-octanol/water : log Pow: 1,99 - 18,02 (20 °C)
pH: 7

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha:

Partition coefficient: n-octanol/water : log Pow: 1,99 - 18,02 (20 °C)
pH: 7

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:

Partition coefficient: n-octanol/water : log Pow: 2,37 - 2,77 (25 °C)
pH: 7,0

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine:

Partition coefficient: n-octanol/water : log Pow: > 5,5 (20 °C)

dodecane-1-thiol:

Partition coefficient: n-octanol/water : log Pow: > 6,5 (25 °C)
pH: 7

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : .

Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product
080112, waste paint and varnish other than those mentioned
in 08 01 11*

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 1263

ADR : UN 1263

RID : UN 1263

IMDG : UN 1263

IATA : UN 1263

14.2 UN proper shipping name

ADN : PAINT

ADR : PAINT

RID : PAINT

IMDG : PAINT
(trizinc bis(orthophosphate), Solvent naphtha (petroleum),
light arom.; Low boiling point naphtha -unspecified)

IATA : Paint

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
IATA	: 3	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

14.4 Packing group

ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 75, 3
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If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.
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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
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Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
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REACH - List of substances subject to authorisation (Annex XIV)	:	None
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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	E2	ENVIRONMENTAL HAZARDS
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	P5c	FLAMMABLE LIQUIDS
--	-----	-------------------

	34	Petroleum products: (a) gasolines
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

- Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)
- . : BSL50 Coating materials, strongly solvent-based, aromatic-containing, classified
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 34,59 %
- Volatile organic compounds : Directive 2004/42/EC
< 35 %
< 410 g/l

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of H-Statements

- H226 : Flammable liquid and vapor.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

H318	: Causes serious eye damage.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer if inhaled.
H361f	: Suspected of damaging fertility.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
DE TRGS 527	: Germany. TRGS 527 - Activities with nanomaterials
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	: TRGS 903 - Biological limit values
DE TRGS 527 / BM	: Assessment scale
DE TRGS 900 / AGW	: Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

Sources of key data used to compile the Material Safety Data Sheet:

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs.

Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

Toxnet - Toxicology Data Network

Classification of the mixture:

Flam. Liq. 3	H226
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 2	H411

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended
by Commission Regulation (EU) 2020/878



DE / EN

Capalac Disbocolor 493 RAL 7004

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2023
4.0	08.11.2023	6007907	Date of first issue: 22.11.2019

REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our up-stream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

DE / EN