



Information Amphibolin

Amphibolin / Amphibolin-W

Universal acrylic paints for versatile exterior and interior use.



Product Description

Field of Application

Emission-minimised and solvent-free exterior and interior paint for versatile use with outstanding adhesive strength on nearly all substrates. The special formula reduces the writing effect (stress whitening) for tinted paint coatings.

Suitable for weather-resistant exterior coatings on smooth and finely textured substrates, providing higher protection against aggressive air pollutants.
 Universal facade paint for application on mineral renders of mortar groups PII and PIII, concrete, fair faced brickwork, fibre-cement boards, stable existing coats of paint, galvanised surfaces, unplasticized (rigid) PVC and wooden parts of unstable shape. Do not apply on ETICS/EWI systems.

For heavy-duty, scrub resistant, texture-retaining interior paint coatings. Particularly suitable for highly stressed coatings on Capaver glass fibre wall coverings and outstandingly suitable for dimly-lit halls, corridors, staircases, storerooms, workshops and underground car parks, due to a high light reflectance value.

Amphibolin is also available with a silk-gloss/mid-sheen gloss level (Amphibolin Gloss 20).

Amphibolin-W (facade paint) is provided with a preservative against deterioration in the coating film due to algal and fungal attack. Hence, do not use indoors.

Material Properties

- Emission-minimised, solvent-free, unplasticized.
- Free of fogging-active substances.
- Water-dilutable, ecologically compatible, low odour.
- Weather-resistant.
- Wet scrub resistance Class 1 according to DIN EN 13300; < 5 µm at 200 strokes, corresponds to "scrub resistant" according to German standard DIN 53778.
- Opacity (hiding/covering power) Class 2, with a spreading rate of 8 m²/litre or 120 ml/m²
- Driving rain resistant, water-repellent according to German standard DIN 4108.
- High adhesive strength.
- Non-yellowing.
- Alkali-resistant, hence unsaponifiable.
- Thin film coating, texture-retaining.
- Highly cleanable and resistant to aqueous disinfectants and household detergents.
- Easy to apply.
- Contains special pigments with photocatalytic effect.

Material Base / Vehicle

100 % pure acrylate. Synthetic dispersion/emulsion according to German standard DIN 55945, containing wet adhesion promoter to achieve optimum adhesive strength.



Packaging/Package Size

Amphibolin

- **Standard Product:** 2.5 l, 5 l and 12.5 l. Airfix: 25 l hobcock, 120 l paint barrel, 480 l stainless steel container
- **"Red Sandstone"** (Rotsandstein): 5 l
- **ColorExpress:** 1.25 l, 2.5 l, 5 l, 7.5 l and 12.5 l

Amphibolin Gloss 20

- **Standard Product:** 25 l

Amphibolin-W

- **Standard Product:** 12.5 l

Colours

White and "Red Sandstone" (Amphibolin Gloss 20 is only available in White).

Amphibolin / Amphibolin Gloss 20 / Amphibolin-W can be tinted with CaparolColor or AmphiColor® (AVA) colourants. Add up to max. 10 % of colourants for application on non-absorbent substrates, e.g. unplasticized (rigid) PVC or galvanised surfaces. If more than one bucket is manually tinted, all product must be thoroughly mixed before use in order to avoid colour differences.

Amphibolin / Amphibolin-W: Quantities of 100 litres or more in individual colours may be ordered ready tinted ex factory.

Amphibolin is tintable to all current colour collections via the ColorExpress tinting & mixing machine system. Amphibolin-W is tintable in light colours up to luminosity/lightness index (LI) approx. 70. Check tinted product before applying to avoid colour differences. Always use tinted paint of same batch, when applying on seamless surfaces.

Brilliant, intensive colours may have a lower opacity (hiding/covering power). It is therefore advisable to apply a first coat in a similar hiding pastel tint, based on white. Possibly a second finishing coat may be necessary.

Colour Stability as per German BFS-Merkblatt (Data Sheet) No. 26:

(Binder) Class: A

(Pigmentation) Group: 1 - 3, depending on the colour.

Gloss Level

Amphibolin / Amphibolin-W: Silk-matt, G₂

Amphibolin Gloss 20: Silk-gloss (mid sheen), G₂

Storage

Keep in a cool, but frost-free place.

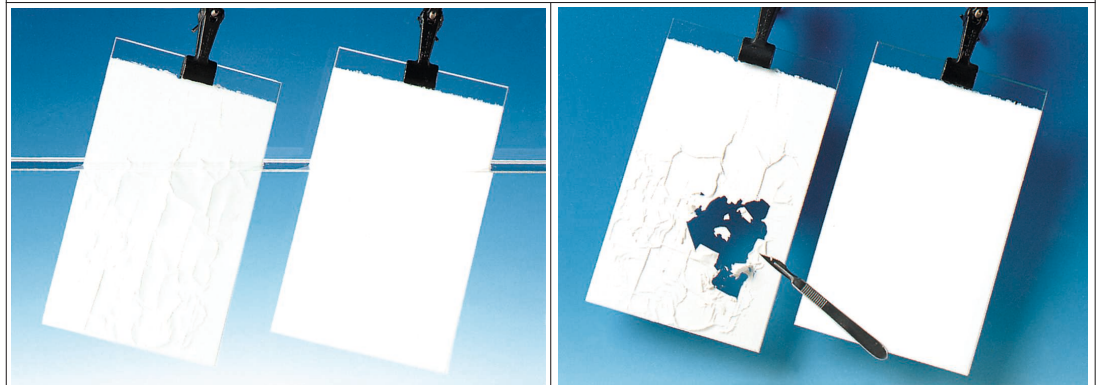
Technical Data

Characteristics according to DIN EN 1062: Tinting may cause variations.

- Maximum particle (grit) size: 100 µm, S₁
- Density: Approx. 1.4 g/cm³
- Dry film thickness: 50 - 100 µm, E₂
- Diffusion-equivalent air layer thickness s_d CO₂: > 50 m, C₁
- Water permeability (w-value): ≤ 0.1 [kg/(m² · h^{0.5})] (low), W₃
- Water vapour permeability (sd-value): ≥ 0.14 m to ≤ 1.4 (medium), V₂

Note

The "wet adhesion promoter", embedded in Amphibolin as demonstrated in our laboratory test on glass plates, prevents the swelling up of binding agent in extremely moist conditions, so that the coatings are permanently prevented from blistering and flaking.



On the left: Conventional exterior dispersion/emulsion paint, on the right: Amphibolin.

Suitability according to
Technical Information No. 606
Definition of Application Areas

Amphibolin / Amphibolin Gloss 20:

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
+	+	+	+	+
(-) inapplicable / (○) of limited suitability / (+) suitable				

Amphibolin-W:

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
-	-	-	+	+
(-) inapplicable / (○) of limited suitability / (+) suitable				

Application

Suitable Substrates

The substrate must be sound/stable, dry, clean, and free from all substances that may prevent good adhesion. In Germany: Follow VOB, part C, DIN 18363, section 3.

Substrate Preparation

Exterior Surfaces:

Exterior Renders in Mortar Groups/Classes PII (Lime-Cement Mortars) and PIII (Cement Mortars) / Minimum Compressive Strength according to DIN EN 998-1: 1.5 N/mm²:

New renders must be left untreated for a sufficiently long time, normally for 2 weeks at 20 °C and 65 % relative humidity. Adverse weather conditions, influenced e.g. by wind or rain, extend the curing process and correspondingly longer holding times must be respected.

The risk of calcareous efflorescence is reduced by an additional priming coat of CapaGrund Universal and the alkaline finishing render may be coated after a holding time of 7 days.

Existing Renders:

Repairs must have adequate time to cure and dry.

Highly porous, absorbent, slightly sanding renders: Apply one priming coat of OptiGrund or CapaSol. Prime highly sanding, chalking renders with Dupa-grund.

Coat mineral lightweight renders of mortar group PII with Sylitol® or AmphiSilan products.

Concrete:

Concrete surfaces with deposits of dirt or fines layer must be cleaned, either mechanically or by using high-pressure water jet, in compliance with the regulations.

Apply one priming coat (covering undercoating) of Amphibolin, diluted to a max. of 5 % with tap (potable) water, on slightly absorbent or smooth surfaces.

Apply one priming coat of OptiGrund or CapaSol on highly absorbent surfaces.

Prime chalking substrates with Dupa-grund.

Fibre Cement Boards (with or without Asbestos Fibres):

Germany: Follow BFS-Merkblatt/Data Sheet No. 14 and TRGS 519 for coatings on asbestos cement boards. Prime in accordance with Technical Information No. 650. Prime free-standing boards on both sides as well as on all edges. Prime new, highly alkaline fibre-cement boards with Disbon 481 EP-Uniprimer to avoid calcareous efflorescence.

Cement-Bound Wood Chipboards (Particle Boards):

Apply one priming coat of Disbon 481 EP-Uniprimer on highly alkaline boards to avoid calcareous efflorescence.

Sound/Stable Coatings of Enamel or Dispersion/Emulsion Paint:

Roughen/sand the surface of glossy coatings or enamels. Wash off existing soiled, chalking layers by high-pressure water jet, manually washing or other suitable cleaning method, in compliance with the regulations. Apply one priming coat of Amphibolin, Amphibolin Gloss 20 or Amphibolin-W, diluted to a max. of 5 % with tap (potable) water.

Sound/Stable Existing Coatings of Plasto-Elastic Dispersion/Emulsion Paint, e.g. Cap-elast:

Clean soiled, chalking coatings by high-pressure water jet, manually washing or other suitable method, in compliance with the regulations. Allow substrates to dry well. Apply Amphibolin, Amphibolin Gloss 20 or Amphibolin-W on such surfaces either exclusively in white or pastel to medium shades (luminosity/LI > 60 for Amphibolin / Amphibolin-W).

Sound/Stable Synthetic Resin-Bound (Organic) Renders:

Clean existing renders by suitable means, e.g. wet cleaning, in compliance with the regulations. Allow surfaces to dry well. Apply one priming coat of Amphibolin, Amphibolin Gloss 20 or Amphibolin-W, diluted to a max. of 5 % with tap (potable) water.

Unstable Coatings of Enamel, Dispersion/Emulsion Paint or Synthetic (Organic) Render:

Remove existing coatings completely by suitable means, e.g. mechanically or with paint stripper. If paint stripper is used, clean the surface with a high-pressure steam jet in compliance with the regulations and allow to dry well.

Apply one priming coat of Amphibolin, Amphibolin Gloss 20 or Amphibolin-W, diluted to a max. of 5 % with tap (potable) water.

Prime highly absorbent, sanding surfaces with Dupa-grund.

Unstable Mineral Coatings:

Remove the coating completely by brushing off, scraping off, wet-blasting or other suitable method, in compliance with the regulations. Allow the substrate to dry well and prime with Dupa-grund.

Unpainted Wooden Parts of Unstable Shape:

Remove resin galls and seeped resin from new wood/timber. Wash tropical, grease containing wood with nitro thinner. Remove weathered wood layers and coat only sound/stable wood with a limited moisture content: Max. 12 % for hardwood, max. 15 % for coniferous wood (softwood).

Prime with Capalac Holz-Imprägniergrund. If discolouration may occur, an intermediate coat of Capacryl Holz-IsoGrund is essential.

Galvanised Surfaces:

Clean the surface with an ammonia-potash based wetting agent and by corundum plastic fleece and rinse thoroughly. Germany: Follow BFS-Merkblatt/Data Sheet No. 5.

Apply one priming coat of Amphibolin / Amphibolin-W, diluted to a max. of 5 % with tap (potable) water.

Coloured coatings on galvanised surfaces may cause white efflorescence at higher humidity. In such cases wipe off all efflorescence and apply an additional coat of Amphibolin, Amphibolin Gloss 20 or Amphibolin-W.

Unplasticized (Rigid) PVC:

Clean thoroughly and slightly sand the surface. Apply one priming coat of Amphibolin, Amphibolin Gloss 20 or Amphibolin-W, diluted to a max. of 5 % with tap (potable) water. Germany: Follow BFS-Merkblatt/Data Sheet No. 22.

Coil Coatings:

Clean the surface with an ammonia-potash based wetting agent. Apply one priming coat of Amphibolin, Amphibolin Gloss 20 or Amphibolin-W. Note: Silicone containing coil coatings cannot be coated. Always apply a trial coating on site and check for adhesion.

Fair Faced Brickwork:

Only absorbent clinker bricks of frost resistant quality and free of foreign inclusions are suitable for exterior coatings. Masonry must be dry and free of salts/salty efflorescence, jointing must be free of cracks. Apply one priming coat of Amphibolin, Amphibolin Gloss 20 or Amphibolin-W, diluted to a max. of 5 % with tap (potable) water. If brown discolouration appears on this first coat, then recoat with solvent-based facade paint Duparol.

Surfaces Contaminated with Industrial Emissions or Soot:

Coat with solvent-based facade paint Duparol.

Surfaces with Fungal or Algal Attack:

Remove fungal (fungi/mildew/mould) and algal attack by wet blasting, in compliance with the regulations. Then use Capatox or FungiGrund and allow to dry well. Recommendation: Use Amphibolin-W for finishing coat.

Cracks in Exterior Renders or Concrete:

Coat with the crack covering system Cap-elast.

Surfaces with Salty Efflorescence:

Remove salty efflorescence thoroughly with a dry wire brush and prime with Dupa-grund. Coating of such surfaces must be considered a risk for which we cannot accept responsibility (application without guarantee), since even after the most thorough treatment the efflorescence may recur.

Defects:

Repair small defects in mineral substrates with fine filler Caparol-Fassaden-Feinspachtel, deeper damages up to 20 mm preferably with filler Histolith-Renovierspachtel and prime repaired areas subsequently.

Interior Surfaces (Do not use Amphibolin-W in interiors):

Interior Plasters in Mortar Groups/Classes PII (Lime-Cement Mortars) and PIII (Cement Mortars) / Minimum Compressive Strength according to DIN EN 998-1: 1.5 N/mm²:

Solid, normally absorbent plasters can be coated without any pre-treatment.

Prime highly porous, sanding, absorbent plasters with OptiGrund or CapaSol.

Gypsum Plasters and Ready-Mixed Gypsum Plasters of Mortar Group PIV / Minimum Compressive Strength according to DIN EN 13279: 2 N/mm²:

Sand/grind off the sintered skin and remove all sanding dust. Prime with Caparol-Tiefgrund TB.

Gypsum Wallboards:

Prime absorbent boards with OptiGrund or Caparol-Tiefgrund TB.

Gypsum Plasterboards (Sandwich-Type Plaster Boards/Drywalls):

Sand/grind off mortar burrs. Prime and strengthen soft gypsum areas (repairs) with Caparol-Tiefgrund TB. Boards containing water-soluble, discolouring substances that leave marks must be primed with Caparol AquaSperrgrund. Germany: Follow BFS-Merkblatt/Data Sheet No. 12.

Concrete:

Remove all residues of separating agent (formwork oil residues) and chalking/powdery, sanding substances.

Autoclaved Aerated Concrete (AAC) / Cellular Concrete:

Prime with a 1 : 3 mixture of Capaplex and tap (potable) water.

Facing Brickwork and Fair-Faced Sand-Lime Brick Masonry:

Coat without any pre-treatment.

Sound/Stable Existing Coatings:

Matt, slightly absorbent coatings can be treated without a preliminary preparation. Roughen glossy surfaces and enamel coatings.

Unstable Existing Coatings:

Remove unstable coatings of enamel and dispersion/emulsion paint or synthetic (organic) plaster. Slightly absorbent, smooth surfaces can be directly coated. Prime highly porous, sanding or absorbent surfaces with OptiGrund or CapaSol. Remove unstable mineral paint coatings by mechanical means and remove all sanding dust. Then prime with Caparol-Tiefgrund TB.

Distemper Paints (Limewater Colour/Paint):

Remove by washing and prime with Caparol-Tiefgrund TB.

Unpainted Woodchip/Ingrain, Relief or Embossed Wallpapers (made of Paper):

Coat without any pre-treatment.

Non-Adherent Wallpapers:

Remove completely. Wash off all residues of wallpaper paste/glue and waste paper. Prime with Caparol-Tiefgrund TB.

Mildewed Surfaces:

Remove coverings of mould by wet cleaning. Then use Capatop or FungiGrund and allow to dry well. Apply a finishing coat of Indeko-W, Malerit-W or Fungitex-W on heavily mould affected surfaces, in compliance with current legal/local and official regulations (follow e.g. Ordinance on Biological Agents and Ordinance on Hazardous Substances).

Surfaces Stained with Nicotine, Water, Soot or Fat/Grease:

Remove nicotine, soot or fat/grease stains by washing with tap water, adding a fat-dissolving household detergent, then allow the substrate to dry well. Clean dried-up water stains by dry brushing-off. Apply one insulating coat of Caparol AquaSperrgrund. Apply one finishing coat of Caparol IsoDeck on highly soiled surfaces.

Wood and Derived Timber Products:

Apply one undiluted priming coat of Amphibolin. Apply one insulating priming coat of Capacryl-Holz-IsoGrund on wood or derived timber products, if discolouration may occur.

Small Defects:

After having completed suitable preparatory work, repair small defects with filler Caparol-Akkordspachtel, following the manufacturers' instructions for processing. Prime subsequently, if necessary.

Method of Application

Apply Amphibolin / Amphibolin Gloss 20 with paint brush, roller or spraying equipment. When spraying: Prime slightly absorbent up to non-absorbent substrates with CapaGrund Universal.

Airless application:

Spray angle: 50°
Nozzle size: 0.017" – 0.021"
Spray gun pressure: 150 – 180 bar

Apply Amphibolin-W with paint brush or roller.

Surface Coating System

First or Intermediate Coat:

Apply Amphibolin / Amphibolin Gloss 20 / Amphibolin-W undiluted or diluted to a max. of 5 % with tap (potable) water.

Finishing Coat:

Apply Amphibolin / Amphibolin Gloss 20 / Amphibolin-W undiluted or diluted to a max. of 5 % with tap water. On roughly textured substrates the first or intermediate and finishing coats should be diluted 5 % and spread out well.

Consumption

Approx. 120 ml/m² per coat on smooth substrates. On roughly textured surfaces correspondingly more. Determine the exact amount of material required by coating a test area on site.

Application Conditions

Low Temperature Limit for Application and Drying:

+5 °C for product, substrate and ambient air.

Drying/Drying Time	At +20 °C and 65 % relative humidity surface-dry and recoatable after 4 – 6 hours, rain-resistant after 24 hours. Completely dry and ready for stress after approx. 3 days. Lower temperatures and higher humidity extend the drying time.
Tool Cleaning	Clean tools (paint brushes/rollers) and airless equipment immediately after use with tap water.
Note	<p>The product should not be applied in direct sunlight or on sun heated substrates, during strong wind, fog or rain, high relative humidity or imminent rain or frost, etc. To avoid lapping, the paint should be applied wet-on-wet and without interruption. Do not apply on horizontal surfaces exposed to rain or moisture.</p> <p>On roughly textured exterior substrates the use of matt exterior Caparol paints (e.g. Muresko, Amphisil, AmphiSilan or Syllitol facade paint) is recommended for aesthetic reason.</p> <p>Stir and sieve well before airless application.</p> <p>Due to the use of Caparol-Tiefgrund TB in interiors, a typical solvent odour is released, hence proper ventilation must be provided during application and drying. Use low aromatic, low odour AmphiSilan-Putzfestiger in sensitive areas.</p> <p>Facades in special climatic conditions (high degree of moisture) or subjected to a higher influence of atmospheric exposure: It is recommended to apply our special products, e.g. ThermoSan NQG, Amphibolin-W or Duparol-W, provided with special agents delaying the forming of organic growth (fungi & algae).</p> <p>Amphibolin-W is provided with a preservative against deterioration in the coating film due to algae and mould/mildew growth (fungal attack) for prolonged – but not unlimited – protection, depending on the moisture degree and intensity of organic infestation (conditions on site). A permanent protection cannot be guaranteed.</p> <p>FungiGrund may be used instead of OptiGrund for substrate preparation on such infested substrates after having finished the cleaning procedure.</p> <p>Mechanical loads on matt facade paints in dark shades may produce bright-toned stripes as a product specific property (no writing resistance).</p> <p>In case of moist weather conditions (rain, dew, fog) yellowish transparent traces of additives, showing a slightly glossy shine and stickiness, may occur on the surface of compact, cool substrates or by means of delayed drying caused by the weather. The traces of additives are water-soluble and will disappear under the influence of a sufficient water quantity, e.g. repeated intensive rainfalls. The quality of the dried coating will not be affected by these changes. In case of direct reworking, all traces of additives must be pre-wetted and completely removed after a short reaction time. An additional priming coat of CapaGrund Universal must be applied. The traces cannot occur when the material is applied under suitable climatic conditions.</p> <p>Touching up surfaces is depending on many parameters and may be visible after drying. Germany: BFS-Merkblatt/Data Sheet No. 25. The use of phenol-based disinfectants may cause surface yellowing.</p>

Advice

German Certificates

- Amphibolin Permeability to carbon dioxide
- Amphibolin Lightness/Luminosity
- Amphibolin Resistance to disinfectants

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

Amphibolin-W:

Harmful to aquatic life with long lasting effects. Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant. If swallowed, seek medical advice immediately and show the container or label (intestinal bacteria can be affected). Do not empty into drains, water courses or into the ground. Use P2 dust filter for grinding. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Clean utensils immediately after use with soap and water. Apply by brush or paint roller only.

Contains: 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

In Germany: Advice for allergy sufferers with isothiazolinone allergy: Hotline 0180/5308928 (0.14 €/minute from German landline, MTS max. 0.42 €/minute).

According to European Regulation 528/2012 this product is defined as a “treated article” (not a biocidal product) and contains the following biocidal substances: Carbendazim (CAS-No. 10605-21-7), Isoproturon (CAS-No. 34123-59-6), Terbutryn (CAS-No. 886-50-0), 2-Octyl-2H-isothiazol-3-one (CAS-No. 26530-20-1).

Amphibolin:

Keep out of reach from children. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water. Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

Further information: See Material Safety Data Sheet (MSDS).

Contains: 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

In Germany: Advice for allergy sufferers with isothiazolinone allergy: Hotline 0180/5308928 (0.14 €/minute from German landline, MTS max. 0.42 €/minute).

Please Note (Status as at Date of Publication)

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to re-moving wastage from site in compliance with standard construction site procedures.
In Germany: Only completely empty containers should be handed in for recycling. Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried/hardened product residues as construction site/demolition/municipal or domestic waste.

EU limit value for the VOC content

of this product (category A/c): max. 40 g/l (2010). This product contains max. 10 g/l VOC.

Product Code Paints and Enamels

Amphibolin: M-DF01 (Germany)
Amphibolin-W: M-DF01F (Germany)

Substances of Content - Declaration

Amphibolin:
Acrylic resin dispersion/emulsion, titanium dioxide, silicates, water, additives, preservative (Methylisothiazolinone, Benzisothiazolinone).

Amphibolin-W:
Acrylic resin dispersion/emulsion, titanium dioxide, silicates, water, additives, preservative (Methylisothiazolinone, Benzisothiazolinone), film preservative (Carbendazim, Terbutryn, Octylisothiazolinone, Isoproturone).

Further Details

See Material Safety Data Sheets (MSDS).

Technical Assistance

As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.

Customer Service Centre

Tel.: (+49) 0 61 54 / 71 17 10
Fax: (+49) 0 61 54 / 71 17 11
e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com

Technical Information No.100 - Issue: June 2016

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.100 - Amphibolin / Amphibolin-W - Issued: April 2016

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

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

1.1 Product identifier

Trade name : Caparol Amphibolin Basis 1

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

Use of the Sub-
stance/Mixture : Coating material

Recommended restrictions : within adequate application - none on use

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 : +49615471222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

220-239-6] (3:1), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Use P2 dust filter for grinding.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsion paint, emission-free and solvent-free

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 10 - < 25
Kieselguhr, soda ash flux-calcined	68855-54-9 272-489-0 21-2119488518-22		>= 1 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
Move out of dangerous area.
If you feel unwell, seek medical advice (show the label where possible).
- If inhaled : Move to fresh air.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Do NOT use solvents or thinners.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Remove contact lenses.
If eye irritation persists: Get medical advice/ attention.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
The product itself does not burn.

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.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.

6.2 Environmental precautions

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight. Perishable if frozen.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s) : Please follow the technical information of the manufacturer.

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	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version 5.1 Revision Date: 14.11.2017 Print Date 16.11.2017 Date of last issue: 23.01.2017
Date of first issue: 03.12.2013

ry)				
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Kieselguhr, soda ash flux-calcined	68855-54-9	AGW (Alveolate fraction)	0,3 mg/m3	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Diatomeous earth can, depending on its origin, contain quartz. The calcining of silica leads to a higher content of cristobalite, activated silica can contain up to 60 vol.% cristobalite. In examining the exposure to (calcined) silica both the amorphous part (limit value for diatomeous earth resp. calcined silica) and the total of the cristobalite and quartz content (carcinogenic according to TRGS 906) should be established., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses
German trade association rules - BGR 192 Eye protection
- Hand protection
Material : Nitrile rubber
Glove thickness : 0,2 mm
Protective index : Class 3
- Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.
- Skin and body protection : 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.
- Respiratory protection : No personal respiratory protective equipment normally required.
During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.
German trade association rules - BGR 190 Breathing protection

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : No data available
- Odour : No data available
- Odour Threshold : Not relevant

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

pH : 8,5

Melting point/freezing point : not determined

Boiling point/boiling range : 100 °C

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : not determined

Relative vapour density : not determined

Relative density : not determined

Density : 1,4000 g/cm³

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : not determined

Auto-ignition temperature : not determined

Decomposition temperature : Not applicable

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

No data available

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

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

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks: Repeated contact may cause allergic reactions in very susceptible persons.

Further information

Product:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Stability in soil : Remarks: 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 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

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

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.
see sections 6-8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class (Germany) : 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : M-DF01 Water-based paints, solvent-free

. : BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

SECTION 16: Other information

Full text of other abbreviations

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; KECI - 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; TCSI - Taiwan Chemical Substance 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:

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

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.

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 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

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, (EC) 2015/830

Caparol Amphibolin Basis 1

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

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. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

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

1.1 Product identifier

Trade name : Caparol Amphibolin Basis 2

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

Use of the Sub-
stance/Mixture : Coating material

Recommended restrictions : within adequate application - none on use

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 : +49615471222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

220-239-6] (3:1), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Use P2 dust filter for grinding.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 5 - < 10
Ethene, homopolymer	9002-88-4		>= 1 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.
Move out of dangerous area.
If you feel unwell, seek medical advice (show the label where possible).

If inhaled : Move to fresh air.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Do NOT use solvents or thinners.

In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Remove contact lenses.
If eye irritation persists: Get medical advice/ attention.

If swallowed : If swallowed, DO NOT induce vomiting.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : The product itself does not burn.
Standard procedure for chemical fires.

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.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight. Perishable if frozen.
- Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

- Specific use(s) : Please follow the technical information of the manufacturer.

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	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version 4.1 Revision Date: 14.11.2017 Print Date: 16.11.2017 Date of last issue: 02.02.2017
Date of first issue: 05.02.2013

Ethene, homopolymer	9002-88-4	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

German trade association rules - BGR 192 Eye protection

Hand protection

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

Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.

Skin and body protection : 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.

Respiratory protection : No personal respiratory protective equipment normally required.
During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

German trade association rules - BGR 190 Breathing protection

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

Odour : No data available

Odour Threshold : Not relevant

pH : 8,5

Melting point/freezing point : not determined

Boiling point/boiling range : 100 °C

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : not determined

Relative vapour density : not determined

Relative density : not determined

Density : 1,3200 g/cm³

Solubility(ies)
Water solubility : completely miscible

Partition coefficient: n-octanol/water : not determined

Auto-ignition temperature : not determined

Decomposition temperature : Not applicable

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

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

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks: Repeated contact may cause allergic reactions in very susceptible persons.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

Further information

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Stability in soil : Remarks: 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 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local,

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

regional, national and international authorities.

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

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.
see sections 6-8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class (Germany) : 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : M-DF01 Water-based paints, solvent-free

. : BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; KECI - 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; TCSI - Taiwan Chemical Substance 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:

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

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.

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 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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Basis 2

Version	Revision Date:	Print Date	Date of last issue: 02.02.2017
4.1	14.11.2017	16.11.2017	Date of first issue: 05.02.2013

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.

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 upstream-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. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Caparol Amphibolin Basis 3

Version	Revision Date:	Print Date	Date of last issue: 14.11.2017
2.3	20.08.2018	21.08.2018	Date of first issue: 04.02.2015

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

1.1 Product identifier

Trade name : Caparol Amphibolin Basis 3

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

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

Recommended restrictions : within adequate application - none on use

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 : +49615471222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version 2.3	Revision Date: 20.08.2018	Print Date 21.08.2018	Date of last issue: 14.11.2017 Date of first issue: 04.02.2015
----------------	------------------------------	--------------------------	---

220-239-6] (3:1), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Use P2 dust filter for grinding.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsion paint, aqueous

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
quartz (respirable dust) ^[MX]	14808-60-7 238-878-4 01-2120770509-45	STOT RE 1; H372	>= 1 - < 10
Substances with a workplace exposure limit :			
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6 238-877-9 01-2120140278-58		>= 10 - < 20
Polyethylene	9002-88-4		>= 1 - < 10

^[MX]: This substance is integrated into the matrix of our products and will therefore be ignored for classification and labeling of the product.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.
Move out of dangerous area.
If you feel unwell, seek medical advice (show the label where possible).
Never give anything by mouth to an unconscious person.

If inhaled : Move to fresh air.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version	Revision Date:	Print Date	Date of last issue: 14.11.2017
2.3	20.08.2018	21.08.2018	Date of first issue: 04.02.2015

Do NOT use solvents or thinners.

In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.

If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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 : 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : The product itself does not burn.
Standard procedure for chemical fires.

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.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version 2.3	Revision Date: 20.08.2018	Print Date 21.08.2018	Date of last issue: 14.11.2017 Date of first issue: 04.02.2015
----------------	------------------------------	--------------------------	---

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required. For personal protection see section 8.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight. Perishable if frozen.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s) : Please follow the technical information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (catego-	2;(II)			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version 2.3 Revision Date: 20.08.2018 Print Date 21.08.2018 Date of last issue: 14.11.2017
Date of first issue: 04.02.2015

ry)				
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Polyethylene	9002-88-4	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

German trade association rules - BGR 192 Eye protection

Hand protection

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

Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.
German trade association leaflet: Carry gloves (ZH 1/706)

Skin and body protection : Long sleeved clothing
Choose body protection according to the amount and con-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version 2.3	Revision Date: 20.08.2018	Print Date 21.08.2018	Date of last issue: 14.11.2017 Date of first issue: 04.02.2015
----------------	------------------------------	--------------------------	---

centration of the dangerous substance at the work place.
Skin should be washed after contact.

Respiratory protection : No personal respiratory protective equipment normally required.
During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

German trade association rules - BGR 190 Breathing protection

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: No data available
Odour	: No data available
Odour Threshold	: Not relevant
pH	: 8,5
Melting point/freezing point	: not determined
Boiling point/boiling range	: 100 °C
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Vapour pressure	: not determined
Relative vapour density	: not determined
Relative density	: not determined
Density	: 1,3300 g/cm ³
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n-octanol/water	: not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version 2.3	Revision Date: 20.08.2018	Print Date 21.08.2018	Date of last issue: 14.11.2017 Date of first issue: 04.02.2015
----------------	------------------------------	--------------------------	---

Auto-ignition temperature : not determined

Decomposition temperature : Not applicable

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

No data available

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 : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

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

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version 2.3	Revision Date: 20.08.2018	Print Date 21.08.2018	Date of last issue: 14.11.2017 Date of first issue: 04.02.2015
----------------	------------------------------	--------------------------	---

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks : Repeated contact may cause allergic reactions in very susceptible persons.

Further information

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Stability in soil : Remarks: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version 2.3	Revision Date: 20.08.2018	Print Date 21.08.2018	Date of last issue: 14.11.2017 Date of first issue: 04.02.2015
----------------	------------------------------	--------------------------	---

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 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.
see sections 6-8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version	Revision Date:	Print Date	Date of last issue: 14.11.2017
2.3	20.08.2018	21.08.2018	Date of first issue: 04.02.2015

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (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.

REACH - List of substances subject to authorisation (Annex XIV) : None

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class (Germany) : 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : M-DF01 Water-based paints, solvent-free

. : BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H372 : Causes damage to organs through prolonged or repeated exposure if inhaled.

Full text of other abbreviations

STOT RE : Specific target organ toxicity - repeated exposure
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; KECI - 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Caparol Amphibolin Basis 3

Version	Revision Date:	Print Date	Date of last issue: 14.11.2017
2.3	20.08.2018	21.08.2018	Date of first issue: 04.02.2015

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; 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:

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 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

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.

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 upstream-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. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN



Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

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

1.1 Product identifier

Trade name : Caparol Amphibolin Gloss 20

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

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

Recommended restrictions : within adequate application - none
on use

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 : +49615471222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P102 Keep out of reach of children.

Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 2-methyl-2H-isothiazol-3-one. **May produce an allergic reaction.**

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

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.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water., Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsion paint, emission-free and solvent-free

Hazardous components

Remarks : No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air.

In case of skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser.
Do NOT use solvents or thinners.

In case of eye contact : Remove contact lenses.
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Seek medical advice.

If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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 firefighters : Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin and eyes.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.
Refer to protective measures listed in sections 7 and 8.
Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Provide adequate ventilation. Avoid contact with the skin and the eyes. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. To maintain product quality, do not store in heat or direct sunlight. Store at room temperature. Perishable if frozen.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s) : Please follow the technical information of the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses
German trade association rules - BGR 192 Eye protection

Hand protection

Material : Nitrile rubber

Glove thickness : 0,2 mm

Protective index : Class 3

Remarks : Wear suitable gloves tested to EN374.
Before removing gloves clean them with soap and water.

Skin and body protection : Protective clothing

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : No special protective equipment required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : pigmented

Odour : not determined

Odour Threshold : Not relevant

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

pH	:	No data available
Melting point/freezing point	:	ca. 0 °C
Boiling point/boiling range	:	100 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Does not sustain combustion.
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined
Vapour pressure	:	ca. 23 hPa
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	1,3900 g/cm ³
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	Not applicable
Flow time	:	not determined
Explosive properties	:	Not applicable
Oxidizing properties	:	Not applicable

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks: Repeated contact may cause allergic reactions in very susceptible persons.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: 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 Other adverse effects

Product:

Additional ecological information : There is no data available for this product. Information given is based on data on the components and the ecotoxicology of similar products.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities.
In Germany: Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried/hardened product residues as construction site/demolition/municipal or domestic waste.
- 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

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.
see sections 6-8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class : 1 slightly water endangering
(Germany) Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and : M-DF01 Water-based paints, solvent-free
paints / Giscode

. : BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; KECI - 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; TCSI - Taiwan Chemical Substance 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 : **No exposure scenario communication is required for this**

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin Gloss 20

Version 2.0

Revision Date 23.01.2017

Print Date 25.01.2017

product according to REACH Regulation No. 1907/2006 EC.

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.

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.

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.

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 upstream-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. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

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

1.1 Product identifier

Trade name : Caparol Amphibolin

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

Use of the Sub-
stance/Mixture : Coating material

Recommended restrictions : within adequate application - none on use

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 : +49615471222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

220-239-6] (3:1), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Use P2 dust filter for grinding.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsion paint, emission-free and solvent-free

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 10 - < 25
Kieselguhr, soda ash flux-calcined	68855-54-9 272-489-0 21-2119488518-22		>= 1 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
Move out of dangerous area.
If you feel unwell, seek medical advice (show the label where possible).
- If inhaled : Move to fresh air.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Do NOT use solvents or thinners.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Remove contact lenses.
If eye irritation persists: Get medical advice/ attention.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
The product itself does not burn.

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.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.

6.2 Environmental precautions

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight. Perishable if frozen.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s) : Please follow the technical information of the manufacturer.

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	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version 5.1 Revision Date: 14.11.2017 Print Date 16.11.2017 Date of last issue: 23.01.2017
Date of first issue: 03.12.2013

ry)				
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Kieselguhr, soda ash flux-calcined	68855-54-9	AGW (Alveolate fraction)	0,3 mg/m3	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Diatomeous earth can, depending on its origin, contain quartz. The calcining of silica leads to a higher content of cristobalite, activated silica can contain up to 60 vol.% cristobalite. In examining the exposure to (calcined) silica both the amorphous part (limit value for diatomeous earth resp. calcined silica) and the total of the cristobalite and quartz content (carcinogenic according to TRGS 906) should be established., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses
German trade association rules - BGR 192 Eye protection
- Hand protection
Material : Nitrile rubber
Glove thickness : 0,2 mm
Protective index : Class 3
- Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.
- Skin and body protection : 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.
- Respiratory protection : No personal respiratory protective equipment normally required.
During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.
German trade association rules - BGR 190 Breathing protection

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : No data available
- Odour : No data available
- Odour Threshold : Not relevant

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

pH : 8,5

Melting point/freezing point : not determined

Boiling point/boiling range : 100 °C

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : not determined

Relative vapour density : not determined

Relative density : not determined

Density : 1,4000 g/cm³

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : not determined

Auto-ignition temperature : not determined

Decomposition temperature : Not applicable

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

No data available

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

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

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks: Repeated contact may cause allergic reactions in very susceptible persons.

Further information

Product:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Stability in soil : Remarks: 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 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

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

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.
see sections 6-8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class (Germany) : 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : M-DF01 Water-based paints, solvent-free

. : BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

SECTION 16: Other information

Full text of other abbreviations

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; IECS - 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; KECI - 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; TCSI - Taiwan Chemical Substance 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:

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

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.

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 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

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, (EC) 2015/830

Caparol Amphibolin

Version	Revision Date:	Print Date	Date of last issue: 23.01.2017
5.1	14.11.2017	16.11.2017	Date of first issue: 03.12.2013

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. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

Caparol Amphibolin Basis1



Technical data

Specific use(s)	Coating material
Density	1,40 g/cm ³
Wet-scrub	Class 1, complies with abrasion resistance in accordance with DIN 53778
Contrast ratio	Class 2 (in accordance with DIN EN 13300)
Consumption	120 ml/m ²
Gloss level	Silky matt (in accordance with DIN EN 53778)

Components

Product Code/GISCODE	M-DF01
Declaration of ingredients preservatives	Emulsion paint, emission-free and solvent-free contained
VOC content in accordance with Directive 2004/42/EC	< 0.1 % < 1 g/l
VOC content LEED [less water]	< 10 g/l
Solvent and plasticiser-free in accordance with VdL- RL 01	yes
Water-dilutable in accordance with 2004/42/EC (Decopaint)	yes
Lead, cadmium, chromium VI * (* not contained in the formulation)	not contained

Environmental labels

Complies with the VOC requirements in accordance with	RAL-UZ 102
--	------------

Building certifications

Suitability for DGNB criteria ENV 1.2 (2012) "Risks for the Local Environment"

No.	Application site	Product type	QS 1	QS 2	QS 3	QS 4
2	Liquid coatings on primarily mineral undercoats, such as concrete, masonry, mortar, filler, plaster, wallpaper, fleece or plasterboard. Floor space and thoroughfares such as underground car parks, access roads, etc are not taken into account.	Decorative paints, decorative fillers, dust-binding coatings, floor coverings without special resistance requirements, concrete protection coatings	yes	yes	yes	yes
27	Factory-coated components, e.g. façade elements, doors, radiators, etc. Galvanising is not considered coating under this criterion.	Primer and top coating (e.g. paints, varnishes)	yes	yes	yes	yes

Suitability for use in accordance with LEED

Category (IEQ4.2 - 2009)	flat topcoat
VOC limit	50 g/l
Limit fulfilled	yes
Category (IEQ4.2 - 2009)	flat topcoat with colourant added at the point of sale
VOC limit	100 g/l
Limit fulfilled	yes
Recycling share	not contained
Production site	DAW SE Roßdörfer Straße 50 DE-64372 Ober-Ramstadt

Caparol Amphibolin



Technical data

Specific use(s)	Coating material
Density	1,40 g/cm ³
Wet-scrub	Class 1, complies with abrasion resistance in accordance with DIN 53778
Contrast ratio	Class 2 (in accordance with DIN EN 13300)
Consumption	120 ml/m ²
Gloss level	Silky matt (in accordance with DIN EN 53778)

Components

Product Code/GISCODE	M-DF01
Declaration of ingredients preservatives	Emulsion paint, emission-free and solvent-free contained
VOC content in accordance with Directive 2004/42/EC	< 0.1 % < 1 g/l
VOC content LEED [less water]	< 10 g/l
Solvent and plasticiser-free in accordance with VdL- RL 01	yes
Water-dilutable in accordance with 2004/42/EC (Decopaint)	yes
Lead, cadmium, chromium VI * (* not contained in the formulation)	not contained

Environmental labels

Complies with the VOC requirements in accordance with	RAL-UZ 102
--	------------

Building certifications

Suitability for DGNB criteria ENV 1.2 (2012) "Risks for the Local Environment"

No.	Application site	Product type	QS 1	QS 2	QS 3	QS 4
2	Liquid coatings on primarily mineral undercoats, such as concrete, masonry, mortar, filler, plaster, wallpaper, fleece or plasterboard. Floor space and thoroughfares such as underground car parks, access roads, etc are not taken into account.	Decorative paints, decorative fillers, dust-binding coatings, floor coverings without special resistance requirements, concrete protection coatings	yes	yes	yes	yes
27	Factory-coated components, e.g. façade elements, doors, radiators, etc. Galvanising is not considered coating under this criterion.	Primer and top coating (e.g. paints, varnishes)	yes	yes	yes	yes

Suitability for use in accordance with LEED

Category (IEQ4.2 - 2009)	flat topcoat
VOC limit	50 g/l
Limit fulfilled	yes
Category (IEQ4.2 - 2009)	flat topcoat with colourant added at the point of sale
VOC limit	100 g/l
Limit fulfilled	yes
Recycling share	not contained
Production site	DAW SE Roßdörfer Straße 50 DE-64372 Ober-Ramstadt

Definition of Application Areas

Classification of interior and exterior surfaces according to varying climatic stress for choosing suitable paints and coating materials.



Product Description

Field of Application

Exterior and interior surfaces are subjected to varying climatic stress, according to conditions on site and intended use. This has to be considered for choosing suitable coating materials and systems. In some cases it is not accurate enough to divide products only in two classes (exterior/interior use). Particularly in the interiors a wide range of different loads in varying intensity may appear, e.g. caused by changing temperatures, water vapour or condensation.

In normal living spaces, for instance, the room climate usually is constant and non-critical, but can be completely different in production halls or large-scale catering establishments. In all cases the application areas are defined as being interior rooms.

This Technical Information defines 5 different application areas, depending on the climatic conditions on site and the intended use. By means of exact descriptions and listed examples the construction to be coated can easily be classified.

The suitability of each Caparol product for the particular field of application is specified in a special Technical Information.

The classification enables a safe choice of products for varying conditions related to exterior and interior room climate.

Material Properties

Classification of Application Areas

Application Areas		
	Description	Examples
Interior 1	Heated interior spaces with predominantly constant temperatures and normal climatic conditions.	Residences, schools, offices, showrooms, rooms within hotels, special-care homes or healthcare facilities.
Interior 2	Interior spaces/rooms with an occasionally higher air moisture (relative humidity), but without constant forming of condensation water on the surface.	Basement garages, private bathrooms/shower rooms and rooms of similar use, working areas and utility rooms, storage depots and workshops, uninhabited cellar rooms.
Interior 3	Closed, unheated, ventilated interior spaces and heated interior rooms with a permanently higher relative humidity and occasional loads of splash water. Walls and ceilings with a surface temperature temporarily below the dew point.	Canteen kitchens, lavatories, production halls with high water vapour loads, walls and ceilings of indoor swimming pools without permanent loads of splash water, cold rooms.
Exterior 1	Exterior surfaces, not subjected to direct weathering, but stressed by occasionally occurring condensation water or frost-dew loads.	Bottom views (soffits) of balconies, recessed balconies, ceilings of open parking decks, walls and ceilings of passage undergrounds, roofed and protected entrance areas.
Exterior 2	Exterior surfaces subjected to direct weathering.	Conventional façades of buildings, walls and other exterior surfaces, suitable for being coated.

The suitability of Caparol products for the particular application area is indicated in a table within the relevant Technical Information. The following three classes of suitability are possible:

- inapplicable
- o of limited suitability
- + suitable

Class (o) „of limited suitability“ allows the use when special requirements are given on site. Please request our technical assistance (advice), if necessary.

Explanation:

Resistance against moisture, varying temperatures and frost-dew cycles is essential for the durability of a coating. Even when a surface is not subjected to water loads by rainfall water may occur due to condensate when the dew point is reached or exceeded on the surface. The durability of usual paint materials is not noticeably influenced when this condition is only occasional and for a limited period, as for e.g. interior surfaces in kitchen or bathrooms without splash water loads (Application Area: Interior 2). However, in special situations the moisture of condensed water can affect the surface at regular intervals and over a longer period. This may happen in production halls with a high moisture or in other damp locations (Interior 3). In these cases it is advisable to use coating materials with a higher resistance to moisture loads. A similar moisture situation may also appear on surfaces that are supposed to be dry, for example ceilings of open parking decks (Exterior 1). In most cases the construction is made of concrete and reinforcing steel. When the construction cools down during the night and then has contact with warm air by day, condensed water can occur on the surface and may deteriorate unsuitable coating materials.

All these criteria are considered by the classification of Caparol products into individual application areas for choosing the suitable product.

Application

Note

- The appropriate structural protection of component parts (construction elements) must always be guaranteed and has to be sound/intact.
- The suitability of each product for the relative application area applies only for durability of the coating under predominant climatic conditions. Further feasible influences, e.g. soiling, chemical loads, algal or fungal (microbiocidal) attack etc., are not considered and have to be estimated according to the relevant current Technical Information.
- Due to their ingredients façade paints with content of a preservative against deterioration in the coating film against fungal and algal attack are not classified in the classes Interior 1 + 2, even if their climatic durability is given.
- The use of solvent-based paints, enamels and glazes is usually possible in the interiors, but may lead to an unpleasant odour. Hence these products are classified as (o) of limited suitability for interior use (Interior 1, 2, 3).
- The classifications of application areas do not include areas with extremely high loads caused by permanent water condensation and splash water loads such as shower cubicles, steam saunas, sides of the pool/pool edges of indoor swimming pools. In these cases special coating products are required. Please request for special advice, if necessary.

Advice

Technical Assistance

As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.

Customer Service Centre

Tel.: (+49) 0 61 54 / 71 17 10
 Fax: (+49) 0 61 54 / 71 17 11
 e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com