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## Lead-free combination drier for paint systems

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### Description

Growing concern for the environment has increased demands for lead-free driers to be used in artists' paints, DIY paints and paints for use on toys. Extensive trials have resulted in the development of **Octa-Soligen<sup>®</sup> 203**, a drier combination as a substitute for driers containing lead, which is universally usable and possesses excellent initial- and through-drying properties.

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### Supply form

Octa-Soligen<sup>®</sup> driers are based on metal salts of 2-ethylhexanoic acid (octoates) or their isomers.

**Octa-Soligen<sup>®</sup> 203** is available in the following supply forms:

Products	Applications
Octa-Soligen <sup>®</sup> 203	solvent-borne systems
Octa-Soligen <sup>®</sup> 203 GA	low-odour coatings
Octa-Soligen <sup>®</sup> 203 HS	VOC-reduced and High-Solid coatings

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### Properties

Cobalt effects rapid surface drying. In conjunction with cobalt, barium acts like lead and improves through-drying. At the same time it prevents the adsorption of primary driers, thereby increasing drier stability during long-term storage. Zinc prolongs the open time of the paint film, thereby promoting uniform through-drying and preventing wrinkling and skinning.

The balanced ratio of the various metal contents of **Octa-Soligen<sup>®</sup> 203** yields optimum results in respect of initial- and through-drying. As a result of the wetting action of the barium, this drier possesses excellent drier stability, rendering use of additional drier stabilisers unnecessary except in the case of critical pigment systems.

**Octa-Soligen<sup>®</sup> 203** is of low viscosity, readily meterable, has a long shelf-life and is particularly suitable for white and light-colored paint systems.

Paints incorporating **Octa-Soligen<sup>®</sup> 203** are characterised by better drying times even under adverse atmospheric conditions.

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### Applications

**Octa-Soligen<sup>®</sup> 203** can be used in all binder systems which dry by oxidation and is particularly suitable for white and light-colored paints. Cloudiness and precipitation do not occur.



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## Use and Dosage

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Experiments have shown that the necessary addition of **Octa-Soligen® 203** should be between 2 and 5 % relative to solid binder, depending on the binder and the pigment system. This is equivalent to a cobalt content of 0.024 to 0.060 %.

When using pigments which retard the drying process such as carbon black or toluidine red, a higher addition rate or special stabilization may be necessary. *Octa-Soligen® Barium 12.5* or *Octa-Soligen® Calcium 10* are suitable for this purpose.

In paint systems which already contain zinc compounds (e.g. zinc-treated titanium dioxide), the zinc in **Octa-Soligen® 203** may retard drying. Addition of *Octa-Soligen® Zirconium 6* brings about an improvement in many such cases. It may still be necessary to switch to a different drier system, however, in this case we recommend trials with *Octa-Soligen® 173*.

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## Storage

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Protect from the effects of weathering and store at temperatures between 5 and 30 °C.  
Once opened, containers should be resealed immediately after each removal of the product.

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## Safety

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Please refer to our safety data sheet for information relating to product safety.

Updated: 25.02.2009

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**OMG Borchers GmbH**

Berghausener Str. 100 / 40764 Langenfeld / Telephone: +49 (0) 2173 – 39 26 666  
Fax: +49 (0) 2173 – 39 26 999 / Internet: [www.borchers.com](http://www.borchers.com) / E-Mail: [info.borchers@eu.omgi.com](mailto:info.borchers@eu.omgi.com)

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