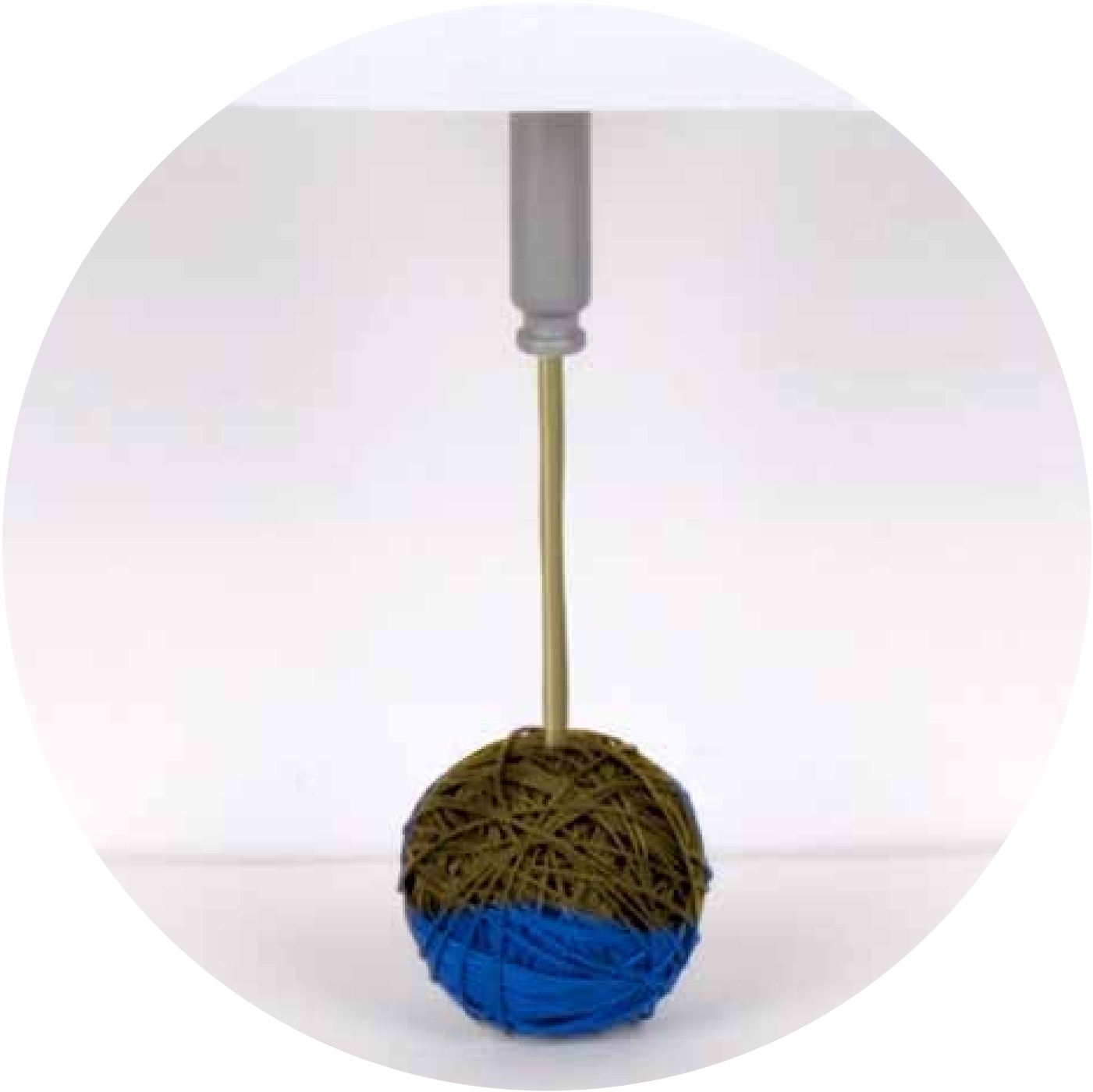
www.rudolf-group.com

RUDOLF GROUP
BETTER CHEMISTRY



RUCO®-DRY BIO CGR

Back to nature and beyond fluorine-free.
Water-repellent performance based on
food processing, natural waste.

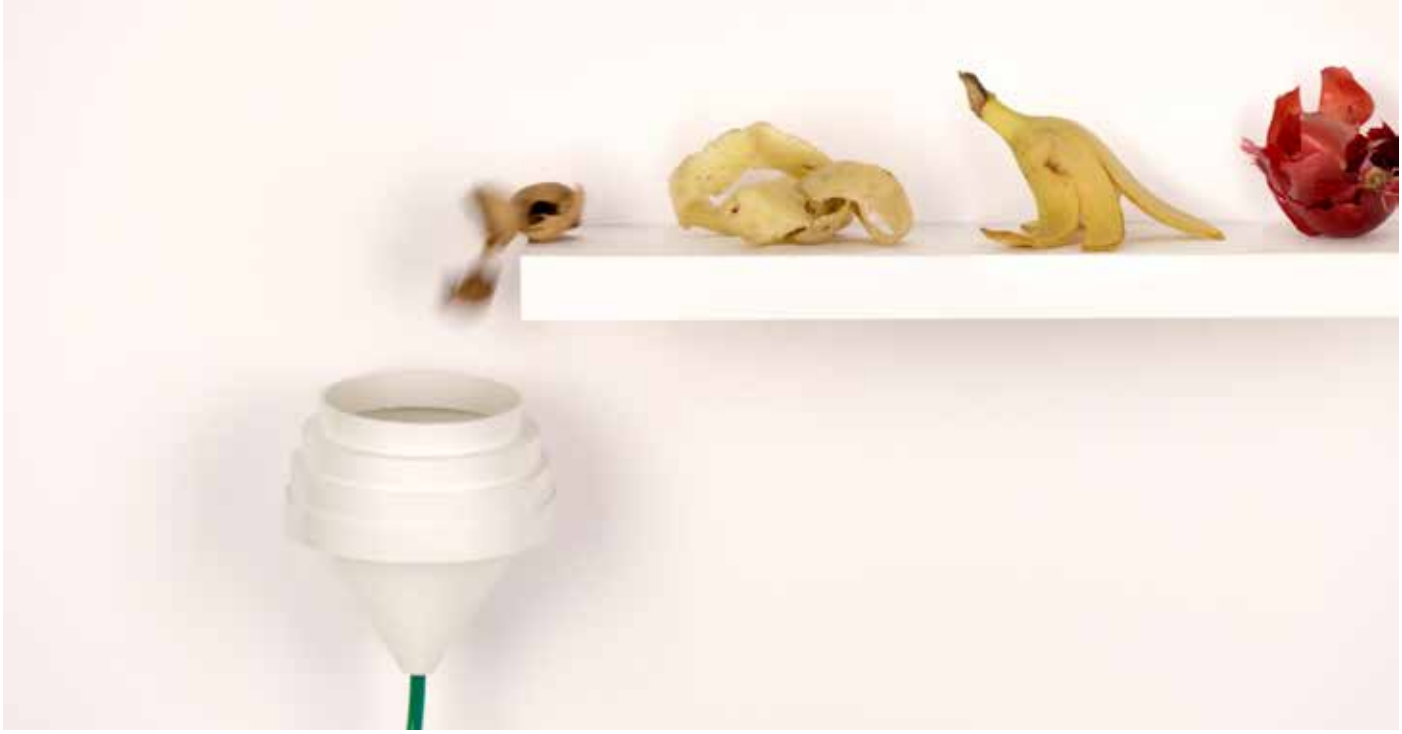
At **RUDOLF GROUP** modern, real science pairs up with environmental consciousness.
R&D constantly explores new technologies and innovations that help transforming the textile and fashion industries. We work to gradually reduce dependency on conventional raw materials so that a significant fraction of our products can be made from either natural, renewable alternatives to oil, or waste and/or byproducts from other industries.

This is what the RUDOLF GROUP calls aspirational chemistry: R&D driven by *genuine, tangible, environmental consciousness that truly defines us.*

That is, in fact, **BETTER CHEMISTRY**.

Biomimicry and our studies of natural models such as lotus leaves or feathers played an important role in redefining the environmental impact of some textile chemistry. They also gave birth to the very first fluorine-free DWR's.

Now we take a leapfrog and introduce **RUCO®-DRY BIO CGR**, which is the crown jewel of our *DWR offering and it is based on plant-derived, food processing wastes.*



RUCO®-DRY BIO CGR is the first durable water-repellent finish entirely based on natural waste: by-products that accumulate during the processing of cereal grains in the food industry.
The excessive natural, organic material - that would otherwise be disposed of - is refined and combined with additives to create a powerful water and stain repellent textile finish. Using natural waste products for the creation of durable water repellent textile treatments, Rudolf has succeeded in maximizing the biomass content of **RUCO®-DRY BIO CGR**. This is a new, valuable tool to a genuinely sustainable textile industry. Further ingredients are incorporated that do not only boost the water repellent performance, but also balance secondary features such as smooth runnability in production, breathability and fabric handfeel.
Despite the massive content of recycled biomass, **RUCO®-DRY BIO CGR** easily meets the usual performance and durability standards applied to water-repellent textile finishes.

Performance & Features

- Excellent, initial water repellency on synthetics, cellulosics and blends; spray rating 100 acc. to AATCC 22
- Superb home laundering resistance up to 30x acc. to DIN EN ISO 6330 (addition of crosslinker e.g. RUCO-LINK XHC for cellulosics and blends is recommended for maximized durability)
- Initial performance is easily restored through tumble drying or ironing of finished articles after laundering
- Excellent repellence towards water-based stains such as coffee, tea, orange juice, etc.
- Retains the fabric's inherent breathability and comfortable wear features
- No impairment of the fabric's appearance or handfeel
- Active component made from > 90% bio carbon

Additional benefits

- Free of PFAS-based and halogenated compounds;
- Free of APEOs
- Free of solvents
- Non-flammable
- **bluesign®** approval to be finalized
- **GOTS 5.0** approved additive by ECOCERT Greenlife

It makes sense and it's logic. It's **BIO-LOGIC**

BIO-LOGIC
Natural Protection