



Sustainability Management: our holistic approach

Sustainability at all levels has a long tradition and is of great importance to us, be it in the development and production of environmentally friendly products, the use of resource-saving manufacturing processes and systems, the avoidance of emissions and waste, energy efficiency measures, a very extensive company health management system for our employees or our ongoing efforts to ensure transparency and open dialogue with all stakeholders.

Sustainable product development

The development of sustainable products has accompanied us for a very long time. Even without legal or societal pressure, it has always been our ambition to offer better and more durable products and solutions for a wide range of applications. Developing high-quality products in collaboration with our customers remains our primary focus.

Over the decades, we have gained a lot of experience in developing various resin technologies based on different raw materials to make products more sustainable from different perspectives. Sustainable product development must ultimately benefit the environment and society, but also take into account economic aspects.

The entire supply chain must benefit. Already in our proven developments, we can take many of these different aspects into account and make resins and additives ever more sustainable. For example, we can determine factors such as the proportion renewable raw materials, the proportion of secondary raw materials, regionality and longevity, the hazard potential of our products, and the competition of our raw materials with the food industry.

Technologically, we are well positioned with our creative departments in research, development and application technology to continue to move towards sustainable products in collaboration with our customers and partners. Every new development is related to sustainability factors such as climate change and resource conservation.

Additionally, an interdisciplinary team has come together at Worlée-Chemie in order to promote sustainable product developments even more, to push them forward and at the same time to optimise their presentation. The various sustainability aspects of our products will be considered, promoted and improved to a greater degree than before along the entire value chain.

Worlée products



| | |
|-------------------------|------------------------------|
| Bio-based raw materials | Camelina oil |
| Renewable raw materials | Partially bio-based monomers |
| Regional raw materials | Danube soya |
| Secondary raw materials | Cotton oil-type-fatty acids |
| Recycled raw materials | To be developed |



Sustainable product development at Worlée



Step towards sustainable solutions

| | | | |
|----------------------|--------------|----------------|----------|
| Basic chemistry | Condensation | Polymerisation | Addition |
| | Polyester | Polyacrylate | Alkyd |
| Type of modification | Silane | Phenolic | Epoxy |
| | Urethane | Silicone | Acrylic |
| Type of curing | Stoving | Isocyanate | Acid |
| | Oxidative | Humidity | UV |

Our corporate values by which we act

Since our founding in 1851, the principle of sustainability with its three core themes of economy, ecology and social issues has been at the heart of our corporate philosophy. As a family business, Worlée-Chemie is committed to social responsibility and fair dealings with business partners and employees. We are committed to forward-looking and prudent environmental protection as well as preventive and comprehensive occupational health and safety as a corporate goal.

We are convinced that the natural resources of water, air and soil must be treated with care as part of our responsible actions. In this way, the ecosystem of which we are a part can be preserved as the basis of our living conditions for future generations. This also applies in particular to the economical and efficient use of energy and natural resources.

We stand by our responsibility for safety in production, storage and transport. We ensure that our products are handled conscientiously along the entire value chain.

Compliance with human rights due diligence is part of our company's self-image. Integrity, fairness, responsibility and a high degree of transparency are the basis for a trusting and long-term business relationship. We expect our suppliers to adhere to these principles in the wider supply chain and to recognise our Supplier Code of Conduct or provide an equivalent guideline.

Worlée-Chemie has been a signatory of the UN Global Compact since 2017 and supports its ten principles on human rights, labour, the environment and anti-corruption.



Worlée-Chemie has identified six of the 17 UN Sustainable Development Goals as particularly relevant for its business area and the resulting effects.



Worlée-Chemie has maintained certified integrated management systems according to ISO 9001, 14001, 50001 and 45001 since 1997 / 2013.



We support the twelve sustainability guidelines for the chemical industry in Germany of the Chemie³ initiative, whose work we have actively supported from the start in 2014.



We support the Responsible Care initiative and regularly take part in the competitions with success. In 2018, we achieved first place in the Responsible Care competition VCI Nord and the nationwide Responsible Care competition thanks to our project called 'Development of a value chain based on sustainable and domestically produced renewable raw materials' as a contribution to the UN target SDG 12 'Sustainable Consumption'. In 2022 we were awarded with the first prize in the RC competition VCI Nord and the 2nd place in the nationwide RC competition. We were awarded for our decades of continuous and transparent dialogue with a variety of stakeholders.



Since 2016, Worlée-Chemie has had its sustainability performance assessed by the international CSR platform EcoVadis achieving very good results. Current status: platinum medal.



In order to fulfil due diligence in sustainable supply chains (e.g., due to the German Supply Chain Due Diligence Act or the draft of an EU Supply Chain Act), Worlée-Chemie has been using EcoVadis assessments of its suppliers since 2018. EcoVadis Assessments are based on 21 CSR criteria in the areas environment, labour and human rights, ethics and sustainable procurement.

ecovadis

Since 2017, Worlée-Chemie has published a sustainability report every two years in accordance with the Global Reporting Initiative Standards core option.



Climate protection

Since 2010, Worlée-Chemie has been a member of the Germany-wide Climate Protection Companies Initiative. Since then, Worlée-Chemie has been committed to ambitious goals in climate protection as well as energy and resource efficiency and actively implements corresponding measures as a pioneer for the German economy.



With the help of the 'Ways to a climate-neutral company' project, we are working tirelessly to create a roadmap with specific measures to achieve scopes 1 and 2 of greenhouse gas neutrality at the Lauenburg and Lübeck plants by 2030 and their climate neutrality including scope 3 by 2045.



In 2022, we received the 'German Award for Sustainability Projects' for our camelina oil project in the category 'Raw Materials/Procurement'. The award focuses on the Sustainable Development Goals, with a particular emphasis on sustainable commitment at all levels of the company.



Let's work together

Do you have ideas for product developments? Feel free to contact us.
We would be pleased to collaborate or work on a joint project with you.

Worlée-Chemie GmbH

Grusonstrasse 26
22113 Hamburg
Tel.: +49 (0)40 73333 0
Email: service@worlee.de

Resin factory/Sales
Worléestraße 1
21481 Lauenburg/Elbe
Tel.: +49 (0)4153 596 0
Email: service@worlee.de

www.worlee.de

Sustainability at corporate level

Barbara Eschke

Head of integrated Management
Systems, Sustainability Management
Tel.: +49 (0)4153 596 4130
Email: BEschke@worlee.de

Worlée Sustainable Products Promotion

Interdisciplinary team at Worlée-Chemie
Email: WSPP@worlee.de

Sustainability at product level

Lars Ossenschmidt

Laboratory Manager, Innovation
Manager & Coordination of
Application Laboratories
Tel.: +49 (0)4153 596 4813
Email: LOssenschmidt@worlee.de



Have a look at our latest
[sustainability report](#).