OQEMA

Propylene glycol Bio Based

A Sustainable Solution
for Diverse Applications

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SOLUTIONS

Propylene glycol Bio Based
A Sustainable Solution for Diverse Applications

Bio Based
CAS: 57-55-6

OQEMA
Bio-Based
Portfolio

Performance
A high-quality performance you've come to rely on from traditional fossil-based propylene glycol, now with added environmental advantages. Benefit from a significant 80 % reduction in product carbon footprint compared to fossil-based alternatives, as per ISO 14067:2018 Greenhouse Gases standards.

Ecological Footprint

Applications
Propylene Glycol BB offers versatility at its finest. Serving as a heat transfer medium, a stabilizing agent in personal care products, and a solvent in pharmaceuticals, it caters to diverse needs. From food and feed additives to applications in tobacco, electronic cigarettes, and various industrial sectors, its utility knows no bounds.

Key Benefits
- **Environmentally friendly:** sourced from renewable biomass, reducing reliance on fossil fuels with an 80 % lower greenhouse gas emissions than fossil alternatives
- **Reliable:** consistent performance, now sustainably improved
- **Applications**: effective in unsaturated polyester resins, coatings, glass fibre-reinforced resins, de-icers, and antifreeze, replacing conventional Propylene Glycol seamlessly
- **Specification**: matches fossil-based, no additional testing required

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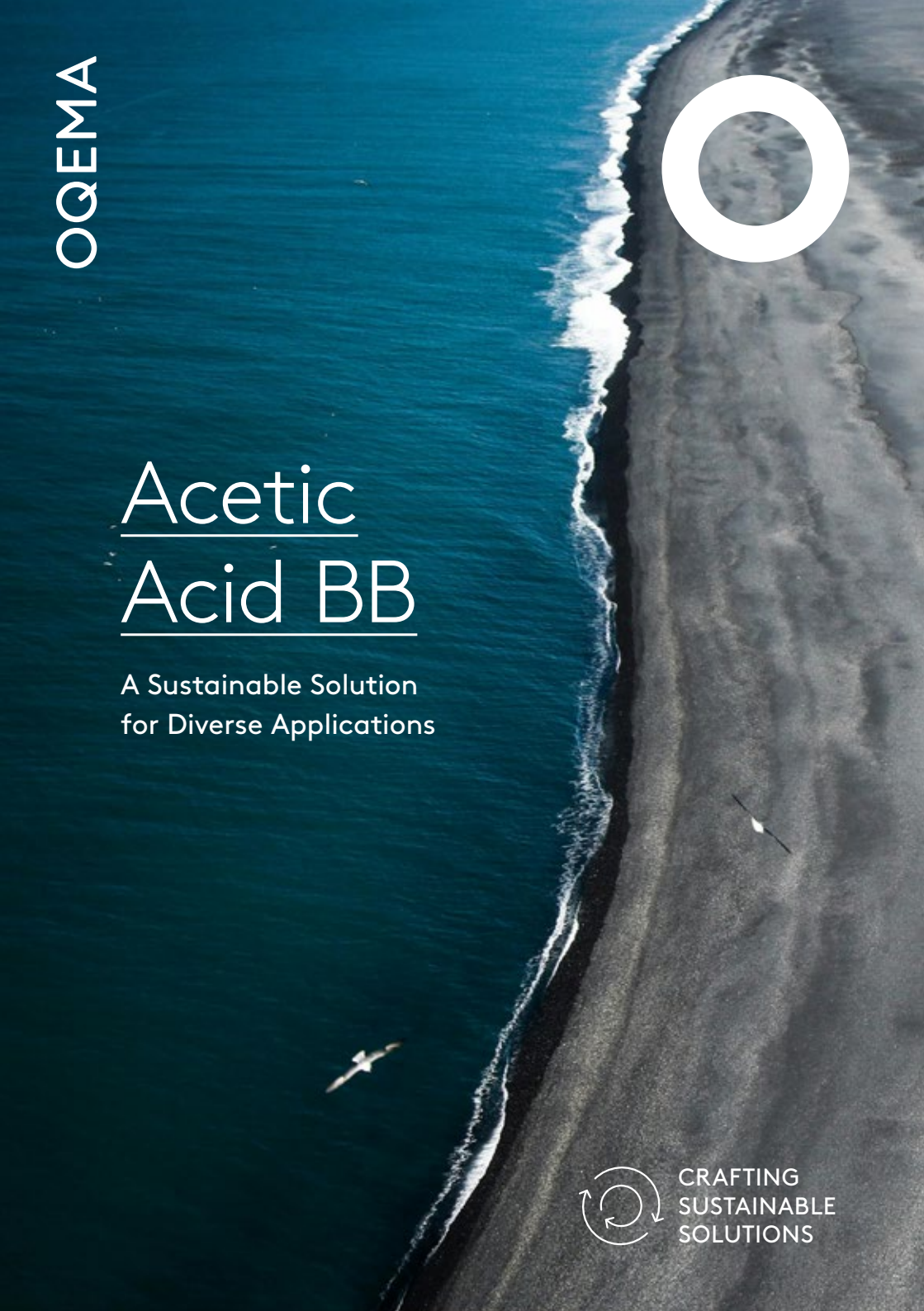
Acetic Acid BB

A Sustainable Solution for Diverse Applications



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Acetic Acid BB
A Sustainable Solution for Diverse Applications

Technical Grade / Bio Based

64-19-7

OQEMA Bio-Based Portfolio

Performance

Acetic Acid BB is 100 % bio-based and derived from renewable energy sources, achieving a 50 % reduction in CO_2 emissions, certified by ISCC+. It remains an effective extractant, diluent, and fast solvent.

Ecological Footprint

Applications

Acetic Acid BB is versatile across industries such as paints, plastics, food, and pharmaceuticals. It is essential for polymer production and serves as a solvent in cosmetics and perfumes.

Key Benefits

- **Environmentally friendly:** made from bio-ethanol or fermented sugar/corn, reducing CO_2 emissions by 50 % compared to fossil-based alternatives
- **Certification:** fully traceable and certified by ISCC+
- **Reliability:** ecologically safe, biodegradable, low-toxicity, offering a sustainable, trusted profile
- **Specification:** matches fossil-based equivalents with no changes to the chemical production process and no additional testing required

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Ethyl Acetate BB

A Sustainable Solution for Diverse Applications

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Ethyl Acetate BB
A Sustainable Solution for Diverse Applications

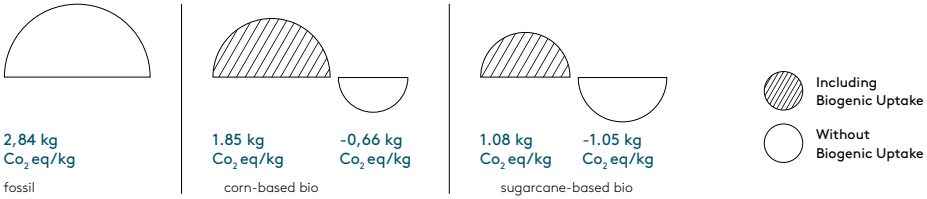
Technical Grade / Bio Based
CAS: 141-78-6

OQEMA
Bio-Based
Portfolio

Performance

Ethyl Acetate BB is made from bio-based ethanol, acetic acid, and renewable energy, achieving a certified 45 % CO_2 reduction (ISCC+). Its lower carbon footprint is enhanced by biogenic uptake – the natural absorption of CO_2 by plants. This ensures sustainability without compromising performance, offering a 100 % physically bio-based, efficient extractant, diluent, and fast solvent.

Ecological Footprint



Applications

A go-to solvent across industries, Ethyl Acetate BB ensures efficiency in coatings, varnishes, adhesives, and printing inks. In pharmaceuticals, it supports extraction and tablet coatings, while in food and beverages, it aids flavouring, decaffeination, and packaging. Also trusted in cosmetics, industrial cleaning, agrochemicals, and textile treatments, it delivers performance with a sustainable edge.

Key Benefits

Environmentally friendly: made from bio-ethanol, bio-acetic acid, and renewable energy with 100 % fossil-free raw materials, significantly reducing CO_2 emissions.
Certification: fully traceable and ISCC+ certified, ensuring compliance with sustainability standards.
Reliability: maintains the same trusted chemical profile, offering high purity, biodegradability, and seamless use.
Specification: identical to fossil-based ethyl acetate, requiring no testing or process changes.

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Epilox® G Bio Based

A Sustainable Solution
for Diverse Applications

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Epilox® G Bio Based
A Sustainable Solution for Diverse Applications

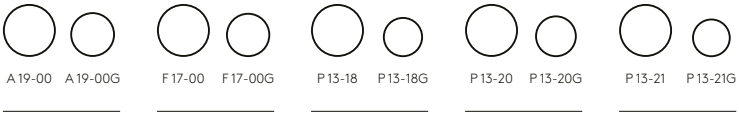
Technical Grade / Bio Based

OQEMA Bio-Based Portfolio

Performance

The Epilox G BB series boasts a remarkable carbon footprint reduction of up to 30 % compared to conventional grades. Crafted from the sustainable raw material bioglycerin, the Epilox G BB redefines eco-friendly solutions without compromising on performance or quality.

Ecological Footprint



Applications

G-Series BB offers versatility with physical and chemical properties mirroring their petrochemical counterparts. Experience top-quality performance without compromise across industries including paints, constructions, adhesives & sealants, and composites. Renowned for their excellence in stoving enamels, laminates, metallography embedding agents, and molding compounds in electrical engineering and electronics.

Key Benefits

- **Environmentally friendly:** raw materials derived from renewable bioglycerin with significant CO2 reduction, varying with different G-type variants
- **Certification:** certified to DIN EN ISO 14040/14044 Standards
- **Reliability:** comparable performance with lower emissions
- **Economical:** simplified testing process that saves time and resources
- **Specification:** same as fossil-based, no change in chemical production process, and no tests necessary

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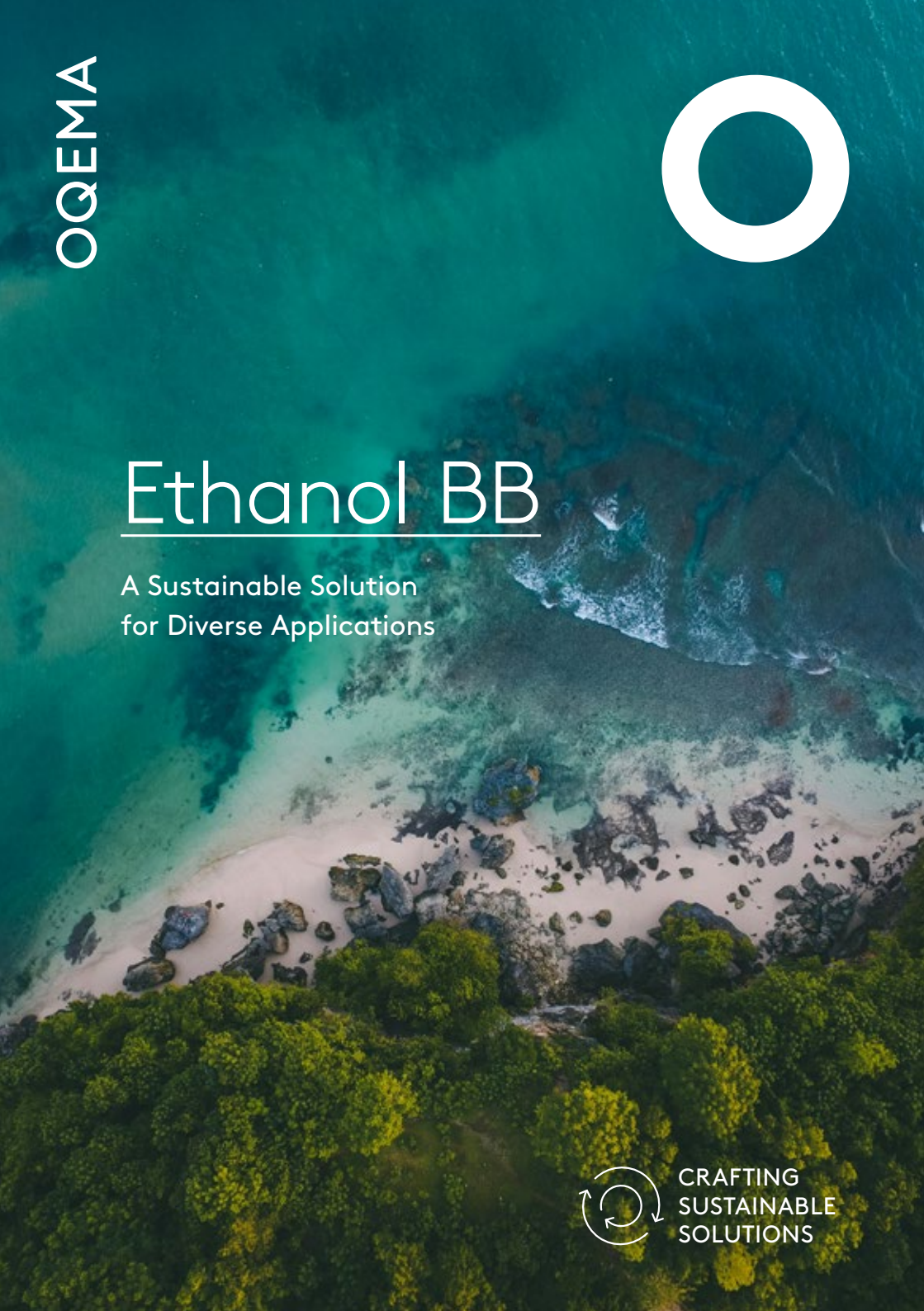
Ethanol BB

A Sustainable Solution
for Diverse Applications



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Ethanol BB
A Sustainable Solution for Diverse Applications

Technical Grade / Bio Based

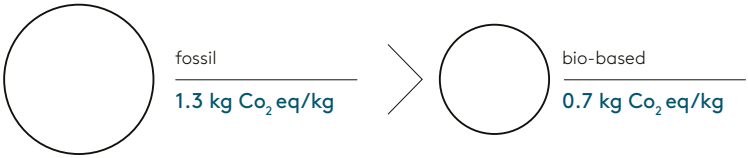
64-17-5

OQEMA Bio-Based Portfolio

Performance

Ethanol BB is derived from non-food feed grain, contributing to a significant CO_2 reduction of approximately 45 %. Whether used as an extractant, diluent, or fast solvent, it remains highly effective and is now 100 % physically bio-based.

Ecological Footprint



Applications

Ethanol BB is a highly versatile solution used across various industries. It functions as a disinfectant, cleaning agent, solvent for paints and chemical reactions, fire accelerator, and an antidote for methanol poisoning. Additionally, it is a key ingredient in alcoholic beverages and finds applications in cosmetics and medical treatments, showcasing its broad utility.

Key Benefits

- **Environmentally friendly:** crafted from forest or cereal-based biomass, utilising 100 % fossil-free raw materials, and achieving an approximate 45 % CO_2 reduction compared to fossil-based alternatives.
- **Certification:** ISO certificate, kosher and REDcert EU
- **Reliability:** ecologically safe, biodegradable, and low in toxicity, offering the same trusted profile with added sustainability.
- **Specification:** equivalent to fossil-based products, with no changes in the chemical production process and no additional testing required.

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Butylacetate BMB

A Sustainable Solution
for Diverse Applications

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Butylacetate BMB
A Sustainable Solution for Diverse Applications

Technical Grade / Bio-based Renewable Feedstock

123-86-4

OQEMA Bio-based Renewable Feedstock

Performance

Butylacetate BMB is sustainably produced through biomass balance, using renewable sources such as bio-naphtha or biomethane derived from organic waste, crops, or vegetable oils. Retaining its role as an effective extractant, diluent, and fast solvent, this product is now 100% biomass-balanced, offering the same reliability with a reduced environmental footprint.

Applications

Widely used as a paint solvent, Butylacetate BMB is versatile enough to suit numerous applications. It functions as a solvent in chemical laboratories, supports histological analysis as an intermediate, and – thanks to its pleasant odour – effectively masks unpleasant smells from other solvents. This sustainability-focused solution is also suitable for use in cosmetics and perfumes.

Key Benefits

- **Environmentally friendly:** produced via a biomass-balanced process that significantly reduces CO_2 emissions compared to fossil-based alternatives
- **Certification:** ISCC+ certified, providing full traceability for environmental accountability
- **Reliability:** low toxicity and biodegradable, Butylacetate BMB combines ecological safety with trusted performance
- **Specification:** identical to its fossil-based counterpart, requiring no additional testing or process adjustments

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Butanol BMB

A Sustainable Solution
for Diverse Applications

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Butanol BMB
A Sustainable Solution for Diverse Applications

Technical Grade / Bio-based Renewable Feedstock

71-36-3

OQEMA Bio-based Renewable Feedstock

Performance

Butanol BMB is sustainably produced through a biomass balance process, utilising renewable resources such as bio-naphtha or biomethane derived from organic waste, crops, or vegetable oils. This efficient extractant, diluent, and fast solvent is now 100 % biomass-balanced, ensuring effective performance with a reduced environmental footprint.

Applications

A highly versatile product, Butanol BMB serves numerous purposes across industries. It is widely used in printing inks and acts as an intermediate in the production of other solvents. In textiles, it functions as a solubiliser and swelling agent, while in household and industrial products, it enhances polishes and cleaners. Known for its low toxicity, Butanol BMB is also well-regarded in cosmetics and personal care formulations.

Key Benefits

- **Environmentally friendly:** produced through biomass balance, Butanol BMB delivers a significant reduction in CO_2 emissions compared to traditional fossil-based alternatives
- **Certification:** ISCC+ certified for full traceability, providing assurance of its sustainable sourcing
- **Reliability:** with low toxicity, biodegradable properties, and a consistent performance profile, Butanol BMB is both ecologically safe and dependable
- **Specification:** equivalent to fossil-based butanol, it requires no additional testing or adjustments in chemical processes

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GROUP

Q-TAN

A vegetal biodegradable coagulant
for sustainable water treatment

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Q-TAN

A high quality, sustainable coagulant for the water treatment industry. Derived from the naturally occurring tannins from the Black Acacia (Acacia Mearnsii) bark, it enhances water clarity whilst promoting circular economy.

APPLICATIONS

Q-TAN is a versatile coagulation and flocculation aid, applicable in wide array of applications. It is particularly effective in those industries where they suffer from high levels of fats, oils, and starches in their wastewater such as the petrochemical, recycling, and food industry.

PERFORMANCE

Q-TAN provides significant environmental gains while offering superior performance to those of conventional inorganic coagulants. It delivers excellent coagulation and flocculation efficiency without altering the pH of the system. This will often result in considerable cost savings by eliminating the need for Sodium Hydroxide. By using Q-TAN you will also benefit from larger and more dense flocs following in a reduction of the amount of sludge produced and ultimately leading to either cost reductions or increased revenues for your sludge disposal.

KEY BENEFITS

- Safe, non-corrosive
- Doesn't add any heavy metals to the system
- Doesn't alter pH of the system
- Effective in a wide range of pH (4.5–10) making operations significantly easier.
- Required dosages are much lower when compared to iron and aluminium salts.
- Sludge generation can be reduced to up to 60 % when using Q-TAN instead of Ferric Chloride or PAC 18.

PRODUCT TABLE

Q-TAN product range consists of two series. Q-TAN 200 series, which features a pure 100% vegetal based active matter and Q-TAN 100 series which contains traces of Aluminium in the formulation to enhance performance in specific applications.

ACTIVE MATTER	Q-TAN 200 SERIES	Q-TAN 100 SERIES
10 %	Q-TAN 210	Q-TAN 110
15 %	Q-TAN 215	Q-TAN 115
20 %	Q-TAN 220	Q-TAN 120
25 %	Q-TAN 225	Q-TAN 125
30 %	Q-TAN 230	Q-TAN 130

INFOGRAPHIC (CO2 DATA)

In this graph we show our most active product from each series which has the best CO2 / MT active matter ratio. Data for other products can be made available upon request.

Product	CO_2 footprint (kg CO_2 eq./kg)
PAC (18 %)	+ 0,26
FeCL3 (40 %)	+ 0,13
Q-TAN 230	– 0,75 kg
Q-TAN 130	– 0,75 kg

ENVIRONMENTAL BENEFITS

- Negative CO_2 Footprint
- Originates from natural origin which have been extracted from FSC certified Black Acacia trees
- Fully biodegradable product (100 % after 28 days based on OECD 301B test)
- Heavily reduces total sludge generation by increasing the dry matter and biomass ratios of the sludge
- Non-hazardous and non-toxic

Please ask your local contact for further information, specifications and samples or watertreatment.group@oqema.com.

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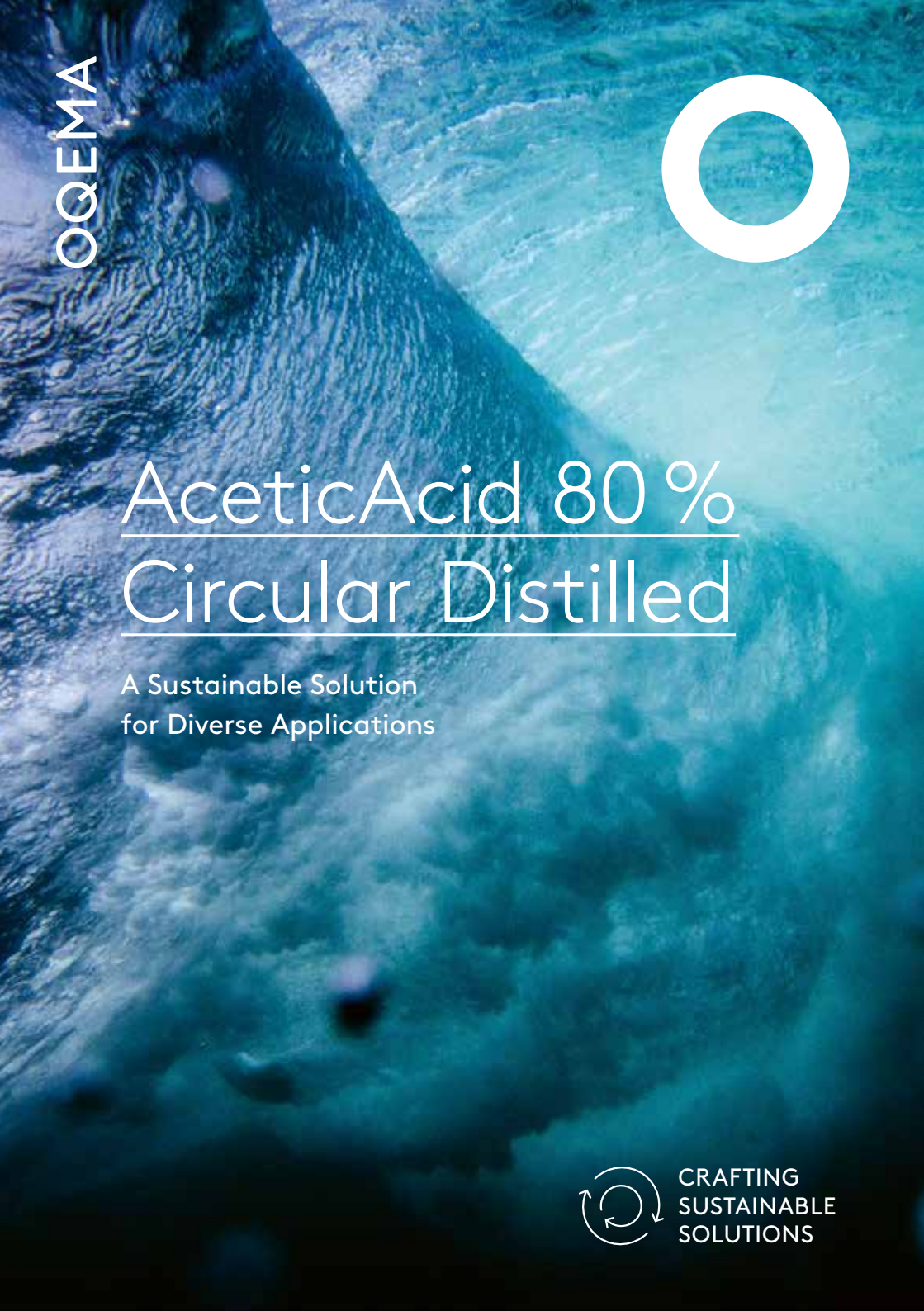

AceticAcid 80 % Circular Distilled

A Sustainable Solution
for Diverse Applications

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Acetic Acid 80 % Circular Distilled
A Sustainable Solution for Diverse Applications

Technical Grade / Recycled

CAS: 64-19-7

OQEMA Recycled Chemicals Portfolio

Performance

With a notable carbon footprint reduction of between 70 % compared to prime/virgin grades, this product actively minimises environmental impact. Derived from a single-source waste stream, Acetic Acid CD boasts consistent quality at a competitive price point.

Ecological Footprint

Applications

Acetic Acid 80 % CD finds application across a broad spectrum of technical industries. Its versatility shines in tasks such as pH adjustment in water treatment, serving as a carbon source in biogas production, and acting as an intermediate in the production of acetates.

Key Benefits

- **Environmentally friendly:** recycled chemical with lower emissions, reducing carbon footprint emissions significantly by 70 %
- **Economical:** high in quality and cost-competitiveness
- **Reliability:** sourced from a continuous waste stream from a single source
- **Certification:** adhering to the highest Environmental Management Standards and operations certified by ISO 14001
- **Application:** versatile chemical suitable for a wide range of applications
- **Specification:** high in quality, but not the same as the origin product, tests are useful

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Acetonitrile CD

A Sustainable Solution for Diverse Applications

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Acetonitrile CD
A Sustainable Solution for Diverse Applications

Technical Grade / Circular Distilled

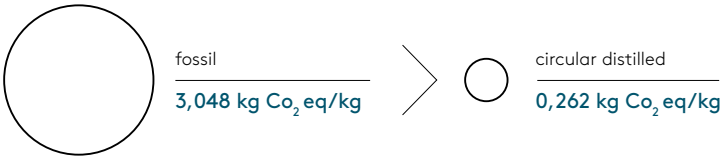
75-05-8

OQEMA Circular Distilled Portfolio

Performance

Acetonitrile CD is a sustainable alternative to fossil-based products, helping to reduce CO_2 emissions and minimise waste. Although slightly modified in specification, it remains highly versatile.

Ecological Footprint



Applications

Acetonitrile CD is a high-purity solvent, known for its versatility in processes such as pharmaceutical manufacturing, organic synthesis, as well as applications in analytical chemistry and battery technology.

Key Benefits

- **Environmentally friendly:** recycled chemical with 70 % lower emissions, significantly reducing its carbon footprint
- **Economical:** high-quality and cost-competitive
- **Reliability:** sourced from a continuous waste stream, ensuring consistent quality
- **Certification:** compliant with ISO 14001 Environmental Management Standards
- **Application:** suitable for a wide range of industrial uses
- **Specification:** high in quality, though slightly different from the original product; testing is recommended

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Dimethyl-formamid CD

A Sustainable Solution
for Diverse Applications

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Dimethylformamid CD
A Sustainable Solution for Diverse Applications

Technical Grade / Circular Distilled

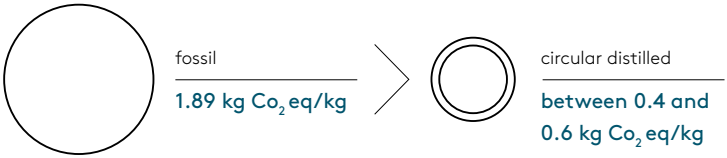
68-12-2

OQEMA Circular Distilled Portfolio

Performance

Dimethylformamide CD stands as a sustainable alternative to traditional, fossil-derived options. It aids in reducing CO_2 emissions while minimising waste and disposal needs. Although slightly modified in specification, it remains remarkably versatile across applications.

Ecological Footprint



Applications

DMF CD functions effectively as a catalyst in producing acid chlorides from carboxylic acids and oxalyl chloride. Known as a polar aprotic solvent, it is frequently utilised in laboratory settings for reactions involving polar transition states and is recognised in chemical technology as an efficient extraction agent.

Key Benefits

- **Environmentally friendly:** sourced from recycled materials, it emits roughly 70–80 % less carbon, thus significantly lowering its environmental footprint
- **Economical:** offers premium quality while remaining cost-effective
- **Reliability:** derived consistently from a single, stable waste stream
- **Certification:** compliant with top Environmental Management Standards and ISO 14001 certified operations
- **Application:** suitable for diverse uses across the chemical sector
- **Specification:** high quality yet distinct from the original product; specific testing is recommended for compatibility

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Re-Connecting Nature®

Where Beauty and Nature meet

Re-Connecting Nature®
The world's first microbiome-restoring ingredient of Finnish nature

As cities grow and sanitation improves, the loss of biodiversity has significant effects on our immune system. Without proper exposure to a diverse range of microorganisms, our immune system is not able to develop correctly, leading to an increased risk of immune-mediated diseases. Our mission is to rebalance microbial diversity with nature.

Re-connecting Nature® extract's unique mix of components is carefully combined to replicate the rich diversity of hundreds of species found in Finnish nature. Most are recycled or renewable, and all are from sustainable sources and reputable partners. Each one is carefully selected based on its unique bacterial composition and characteristic.

KEY BENEFITS

- helps restore the skin's natural microbiome balance
- supports the natural microbiome diversity
- strengthens and supports the skin barrier function (in vivo)
- helps maintain normal skin barrier function and collagen production in aging skin and in skin under stress
- accelerates skin renewal and repair
- reduces skin redness and irritation (in vivo)

FUNCTION

- Multiple formulation usage
- Suitable for all skin types including sensitive skin

RE—CONNECTING NATURE®

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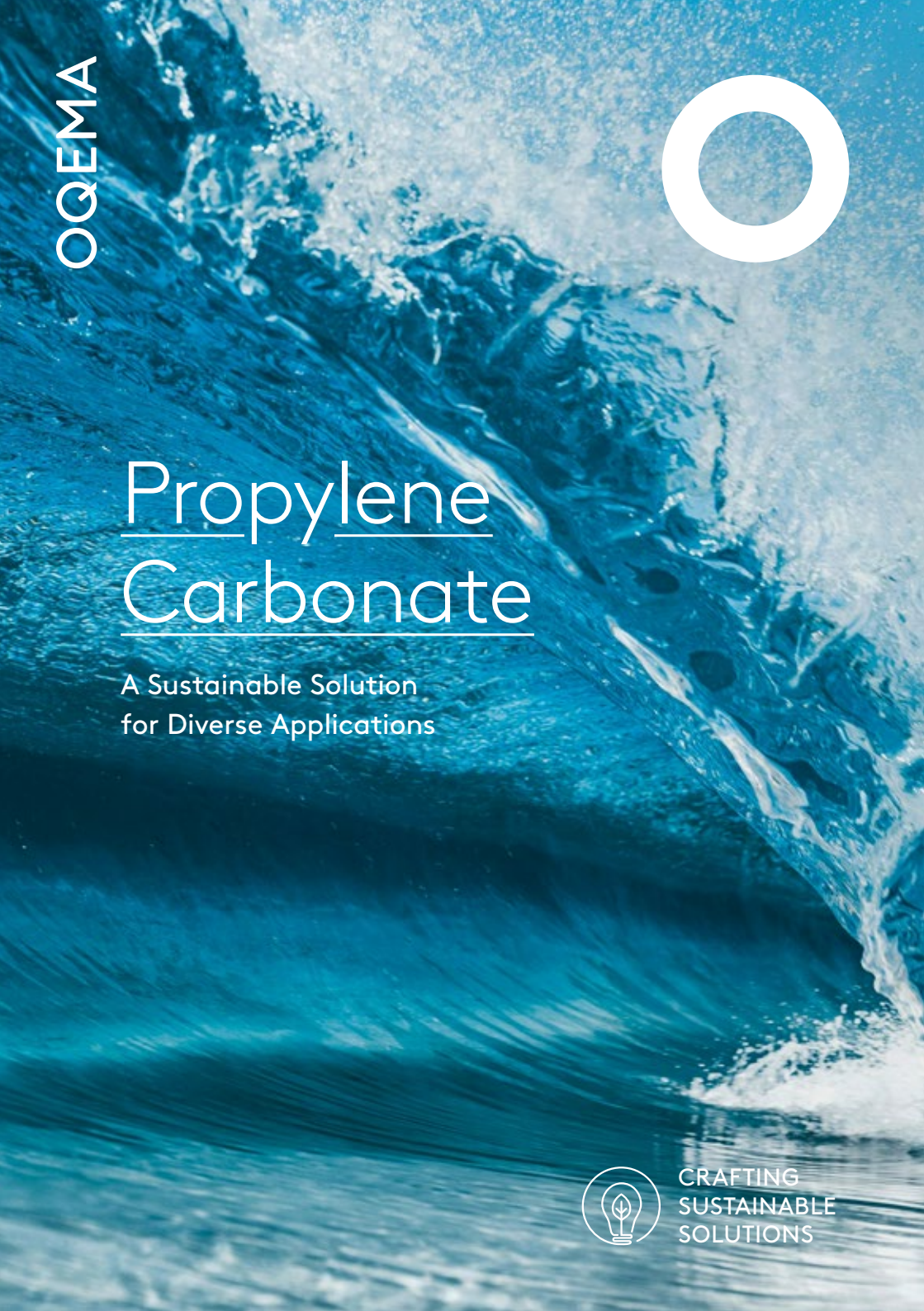
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Propylene Carbonate
A Sustainable Solution for Diverse Applications
CRAFTING SUSTAINABLE SOLUTIONS

Propylene Carbonate
A Sustainable Solution for Diverse Applications

Technical Grade / Innovative Novel Chemistry

108-32-7

OQEMA Innovative Novel Chemistry

Performance

Propylene carbonate (4-methyl-1,3-dioxolan-2-one) is a clear, colourless, and nearly odourless liquid, widely valued for its beneficial properties. It is increasingly replacing cresols, which pose ecological and occupational health concerns. As a carbonate, it is an ester of divalent carbonic acid and the divalent alcohol 1,2-propanediol. Recognised as a green solvent, propylene carbonate is both environmentally and user-friendly. It offers a high boiling point, is non-corrosive, and is not hygroscopic, making it a reliable and sustainable choice.

Applications

Propylene carbonate (PC) is a versatile solvent widely used across industries. In paints and coatings, it replaces toxic substances like cyclohexanone, DMF, acetone, MEK, and ethyl acetate. It is also employed in inks, cleaners, and metal degreasing.
PC is vital in PU foam production, aromatic hydrocarbon extraction, and acts as a swelling agent for clay minerals in paints, cosmetics, and lubricants. It serves as a plasticizer in plastics and, due to its purity, as an electrolyte in high-energy-density batteries.

Key Benefits

- **Environmentally friendly:** Low-toxicity, biodegradable, and a safer alternative to harmful products.
- **Economical:** High quality at a competitive price compared to less sustainable options.
- **Reliable:** Non-hazardous under transport regulations, with no VOC levies in Switzerland.
- **Certified:** Meets the highest Environmental Management Standards and is ISO 14001 certified.
- **Specification:** A multipurpose chemical suitable for a wide range of applications.

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Butylglycol BMB

A Sustainable Solution
for Diverse Applications

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Butylglycol BMB
A Sustainable Solution for Diverse Applications

Technical Grade / Bio-based Renewable Feedstock

111-76-2

OQEMA Bio-based Renewable Feedstock

Performance

Butylglycol BMB is sustainably produced through a biomass balance process, using renewable sources such as bio-naphtha or biomethane derived from organic waste, crops, or vegetable oils. This efficient extractant, diluent, and fast solvent is now 100 % biomass-balanced, delivering effective performance while reducing environmental impact.

Applications

Highly versatile, Butylglycol BMB is a trusted solution across a variety of industries. It plays a key role in printing inks, thinners, and paints, while also serving as a lubricant in hydraulic fracturing and a solvent in oil production well processing. Widely used in paints, varnishes, detergents, and cleaners, it even proves its adaptability in personal care as a reliable solvent for hair dyes. From industrial applications to everyday products, Butylglycol BMB truly showcases its versatility.

Key Benefits

- **Environmentally friendly:** Environmentally friendly: biomass-balanced production results in a substantial reduction in CO_2 emissions compared to traditional fossil-based alternatives
- **Certification:** ISCC+ certified for full traceability, ensuring responsible sourcing and environmental compliance
- **Reliability:** biodegradable and low in toxicity, Butylglycol BMB combines ecological safety with dependable performance
- **Specification:** matches the quality of fossil-based butylglycol, requiring no additional testing or production adjustments

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