MAKING GREEN WORK.

Thinking holistically, acting sustainably

Sustainability in our bio-chem products and technologies is our way of fulfilling the needs of the people of today, and of using resources in such a way that future generations will also be able to profit from them.

“For us, sustainability means assuming responsibility, for our entrepreneurial and social actions as well as for all environmental concerns.”
Ulrich Berens, Chairman of the supervisory board

VOC Directive – Solvent reduction in surface cleaning

VOC free!

VOC stands for Volatile Organic Compounds. VOC are pollutive and may therefore harm human health. The Directive 1999/13/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations aims at considerably reducing the use of solvents and VOC emissions into the environment, thereby protecting human health. This solvent regulation concerns for instance activities such as surface cleaning. Surface cleaning plants with a solvent consumption of more than one metric ton per year have to be operated at state-of-the-art level (closed facilities) and have to observe diffuse and collected emission limits. These limits do not apply to cleaning agents with a solvent content of under 20 %. For your information we have marked the bio-chem cleaning agents for surface cleaning with a solvent content of under 20 % in this catalogue as **VOC-reduced**, and those without solvents as **VOC-free**. In plenty of applications solvents can be replaced completely by water-based bio-chem products. For many volatile solvents such as acetone or ethyl acetate, bio-chem FT 200 and bio-chem GS 200 are an alternative for you to meet the requirements of the reduction scheme.

Nature Boost – Green Corner

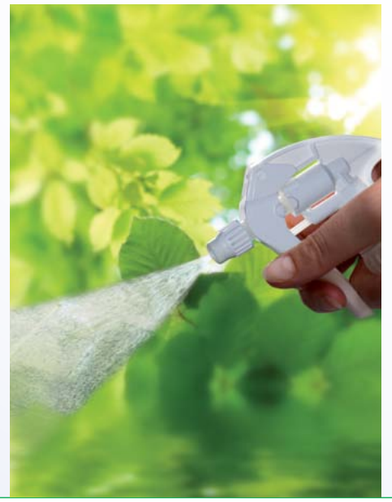
Nature Boost is the way to successful cleaning in the industry

NATURE BOOST

Nature Boost is an innovative additive produced from renewable raw materials. This unique additive stands out for its excellent dissolving powers, especially with strong greases, oils, adhesives and also paint and inks. What makes the efficacy of Nature Boost even more impressive is that it is also non-combustible, VOC-free, not subject to mandatory labelling and renewable.

CLEANBLUE

Optimal performance, employee protection, and reduction of environmental impacts – that’s what Nature Boost stands for.



CleanBlue by Bio-Circle

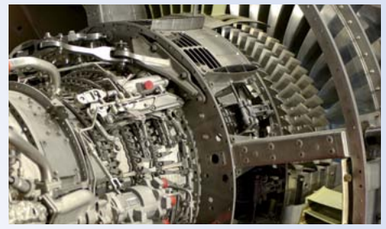
In times of increasing energy costs and limited resources, making efficient use of energy is becoming more and more importdeant in all sectors. The bio-chem low-temperature cleaners have been developed for mechanical applications. They save energy and remove strong contaminations vigorously even at ambient temperature. The cleaners can be used flexibly in all temperature ranges, parts can be measured in a timely manner, fresh water consumption is reduced, and there is less danger of cleaner residues drying on the parts.

bio-chem cleaner

CLEANBLUE

NATURE BOOST – Eliminate persistent contaminations safely.

CB 100, CB 100 F, CB 100 Alu



bio-chem CB 100 is the **cleaner** that benefits from the **power of Nature**. The water-based cleaner with its pleasant scent is produced from renewable raw materials derived form recycled products. These natural active substances provide the cleaner with its strong dissolving powers. The surface remains unaffected, and the original finish is restored.

- **VOC-free – environmentally compatible and user-friendly**
- **Water-based**
- **Not subject to mandatory labelling in accordance with the European Directive, reduces hazardous substances**
- **Virtually residue-free**

NATURE BOOST

VOC free!

NEW

CB 100
Universally applicable in the manual cleaning of strong contaminations in all fields of the industry. A substitute for paraffin in cleaning.

- **A50025** 500 mL PET bottle with trigger
  Trading unit: 20 x 500 mL (1 box)
- **A01025** 10 L jerrycan
- **A03025** 30 L jerrycan
- **A20025** 200 L drum
- **A10025** 1000 L IBC

NSF

NEW

CB 100 F
Foamless cleaner for mechanical and manual cleaning. Optimal cleaning results also at ambient temperature.

- **A01085** 10 L jerrycan
- **A03085** 30 L jerrycan
- **A20085** 200 L drum
- **A10085** 1000 L IBC

Tipp:
Optimal geeignet zum Reinigen und Entfetten in allen Clean Boxen .

NEW

CB 100 Alu
Equipped with a special aluminium formula that protects aluminium and brass. With efficient corrosion protection. Active at ambient temperature and when heated.

- **A50049** 500 mL PET bottle with trigger
  Trading unit: 20 x 500 mL (1 box)
- **A01049** 10 L jerrycan
- **A03049** 30 L jerrycan
- **A20049** 200 L drum
- **A10049** 1000 L IBC

GS 200

bio-chem GS 200 removes cracking, persistent greases, anti-rust waxes, bitumen, polymers, adhesive residues, sealing compounds (also silicone), rubber and many more in a natural way. The extremely economical cleaner operates on the basis of renewable raw materials and is the effective alternative to solvents containing VOC and/or irritant substances.

NATURE BOOST

VOC free!

- **VOC-free**
- **High flash point (>100 °C / 212 °F) enhances safety during application**
- **Not subject to mandatory labelling in accordance with EC directives**

- **A50065** 500 mL PET bottle with trigger
  Trading unit: 20 x 500 mL (1 box)
- **A01065** 10 L jerrycan
- **A03065** 30 L jerrycan
- **A20065** 200 L drum
- **A10065** 1000 L IBC

Easy cleaning – FOR CLEAN

NEW

high cleaning performance • can be used anywhere • safe to use • helps reduce environmental stress

The new cleaners of the BIO-CIRCLE FOR CLEAN range stand for powerful and environmentally compatible cleaning. The products solve the cleaning tasks of industrial cleaning and can be used in manual as well as in mechanical cleaning

They have been developed on the basis of the latest raw material trends, they work effectively at low temperatures, and of course they also don't require any labelling in accordance with the new CLP Regulation. The performance package is perfected by the universal applicability of these innovative cleaners.

high cleaning performance	safe to use	can be used anywhere	helps reduce environmental stress
Powerful against mineral oils, vegetable oils and greases, cooling lubricants and cutting oils, protein incrustations, and soot. Highly concentrated, individual dilution ratios guarantee customized cleaning solutions for each user's application	No labelling required in accordance with the CLP Regulation NTA-free Neutral to slightly alkaline pH value No preservatives Pleasant to use – also when spraying	For manual and mechanical applications (see table) Gentle on surfaces made of metal, plastics, wood, ceramics, rubber, and many more Oil-separator compatible	Surfactants are biodegradable in accordance with EU regulations No silicate, no phosphate VOC-free Cleans at ambient temperature already – low energy VOC free! CLEANBLUE

FOR CLEAN, FOR CLEAN F, FOR CLEAN V

FOR CLEAN application table

VOC free!

	Manual application	Mechanical application	Ultrasonic cleaning devices	Aluminium cleaning
FOR CLEAN	✓	–	✓	compatibility test
FOR CLEAN F	✓	✓	✓	✓
FOR CLEAN V	✓	–	–	Carry out a compatibility test

The extraordinary benefits at a glance

- High cleaning performance
- Safe and pleasant to use
- Environmentally compatible
- Powerful at low temperatures already (in hot-water parts washers and spray cleaning systems from 40 °C low-foaming)
- Cost reduction by individual, customized dilution

NEW

bio-chem AUTRASYS Clean

The efficient, fast and safe application system to be used in cleaning.

NEW

FOR CLEAN

Maximum performance on mineral and vegetable oils and greases, machining oils, food residues, protein incrustations, soot, and many more

A50080 500 mL spray bottle with trigger
Trading unit: 20 x 500 mL (1 box)
A01080 10 L jerrycan
A03080 30 L jerrycan
A20080 200 L drum
A10080 1000 L IBC

NEW

FOR CLEAN F

Low-foaming – developed for mechanical use and wherever foam is disruptive. Cleans and removes machining oils, lubricants, residues, etc.Individually dilutable up to 1:100, depending on the cleaning task.

A50013 500 mL spray bottle with trigger
Trading unit: 20 x 500 mL (1 box)
A01013 10 L jerrycan
A03013 30 L jerrycan
A20013 200 L drum
A10013 1000 L IBC

NEW

FOR CLEAN V

Slightly viscous cleaning gel, with very good adhesion to surfaces ideal for cleaning perpendicular or other upright surfaces. Guarantees a long soaking time of the cleaner on the surface.

A50022 500 mL spray bottle with trigger
Trading unit: 20 x 500 mL (1 box)
A01022 10 L jerrycan
A03022 30 L jerrycan
A20022 200 L drum
A10022 1000 L IBC

UNO

VOC free!

CLEANBLUE

Phosphate- and VOC-free **cleaner and degreaser** (highly concentrated, dilutable to 1:40) for removing oil-, grease- and protein residues (flyspeck, blood etc.) from surfaces made of metal, wood, plastic, ceramics and many more.

The cleaner works on the basis of detergent substances (surfactants) that by reducing the surface tension dissolve the residues from the surfaces to be cleaned. As no stable emulsions are formed (demulsifying), greases and oils go to the surface of the rinsing solution where they can be removed. The rinsing solution remains powerful and active for a long time. Heating to 90 °C max can increase cleaning performance many times over.

- **Not subject to the VOC regulation, NTA-free**
- **Compatible with oil separators**
- **Surfactants are biodegradable in accordance with European Regulation**
- **Not subject to mandatory labelling in accordance with the European Directive**
- **Ideal for low-temperature cleaning**

NSF Nonfood Compounds Program Listed (141943) (A1)

Fields of use • Manually and mechanically (e.g. in pressure washers and ultrasonic cleaning devices)

• Universally for the cleaning of industrial and mechanical facilities in the entire industry, especially in the metalworking industry, and in the range of home and hobby

UNO

- **A50001** 500 mL plastic bottle with trigger
  Trading unit: 20 x 500 mL (1 box)
- **A01001** 10 L jerrycan
- **A03001** 30 L jerrycan
- **A20001** 200 L drum
- **A10001** 1000 L IBC

Please note:
Do not use the concentrated cleaner on aluminium and zinc coatings!

For mechanical application and where foam would interferet.

UNO F
Foamless

- **A50031** 500 mL plastic bottle with trigger
  Trading unit: 20 x 500 mL (1 box)
- **A01031** 10 L jerrycan
- **A03031** 30 L jerrycan
- **A20031** 200 L drum
- **A10031** 1000 L IBC

For mechanical application and corrosion-sensitive parts.

UNO PF
Foamless + corrosion protection

- **A50030** 500 mL plastic bottle with trigger
  Trading unit: 20 x 500 mL (1 box)
- **A01030** 10 L jerrycan
- **A03030** 30 L jerrycan
- **A20030** 200 L drum
- **A10030** 1000 L IBC

UNO W

Product description in accordance with ÖNORM B 5105: Aqueous phosphate-free **alkaline cleaner** with selected foam-free surfactants (highly concentrated, can be diluted with water up to 1:40) for the cleaning and degreasing of machines, tools, workshop equipment, vehicles etc. (corrosion inhibitors guarantee temporary corrosion protection). Dissolves vigorously oils, greases, resins, waxes, nicotine, insect speck, food residues, soot, bitumen- and tar spatter etc. from metal, plastics, tiles, wood, rubber etc. (material-conserving and non-abrasive).

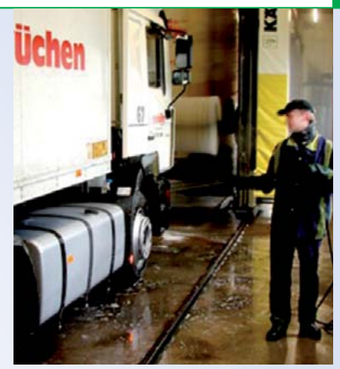
- **Surfactants are biodegradable in accordance with European Regulation, not subject to mandatory labelling in accordance with the European Direc**
- **Non-combustible, can be heated to 90 °C max, which accelerates the cleaning process**
- **Compatible with oil separators**
- **TESTED IN ACCORDANCE WITH ÖNORM B 5105**
- **Registration number: ON-N 2011 139**

VOC free!

Fields of use • Adition to manual cleaning it can also be used in floor cleaning devices, pressure washers, spray extraction devices, and hot-water parts washers.

UNO W

- **A00189** 1000 mL plastic bottle with trigger
  Trading unit: 10 x 1000 ml (1 box)
- **A01089** 10 L jerrycan
- **A03089** 30 L jerrycan
- **A20089** 200 L drum
- **A10089** 1000 L IBC



empfohlene Anwendungskonzentration	1:40	1:30	1:20	1:10	Concentrated
Aluminium parts	●				
Workshop pits				●	
Car roof lining				●	
Bitumen spatter					●
Busses		●			
Chrome		●			
Diesel residues				●	
Stainless steel degreasing		●	●	●	●
Grease					●
Flyspeck				●	
Fork lift trucks		●			
Hard floors				●	
Plastic parts		●			
Plastic floors		●			
Trucks				●	
Truck tarpaulins				●	
Machines				●	
Nicotine				●	
Oil				●	
Oil residues				●	
Oil-polluted engines				●	
Repair parts	●	●	●	●	
Soot					●
Steel degreasing			●		●
Tar spatter					
Gates		●	●	●	●
Workshop equipment		●			
Tools		●	●	●	
Machine tools		●			
Tent tarpaulins	●				

Pressure washers	3 – 5 %

Floor Cleaner

VOC free!

High-performance, water-based, low-foaming cleaner for everyday mechanical and manual floor cleaning. Stands out for its fast and thorough dirt removal properties. Its excellent wetting properties release dirt even from small crannies and depressions. Powerfully releases oils, greases, resins, waxes, insect dirt, food debris, and soot. Cleans all water-resistant flooring materials such as tiles, timber, linoleum, PVC, rubber, matt natural stone (e.g. marble, granite) in a material-protecting and non-abrasive manner.

- **Environment-consciously designed; thevSurfactants are biodegradable in accordance with European Regulation, phosphate- and chelating-agent-free, contains no AOX compounds**
- **Not subject to mandatory labelling in accordance with the European Directive**
- **Highly concentrated, can be diluted up to 1:100, which saves warehousing costs**
- **Incombustible, pleasantly fresh scent**

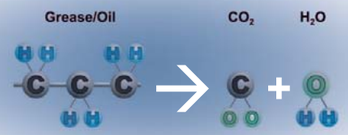
Applicable in food industry!

Fields of use • For the cleaning of industrial surfaces, shop floors and workshop floors, production sites and warehouses. Can be used manually and mechanically in pressure washers, floor cleaning machines, etc. By heating to a maximum of 90 °C cleaning performance can be increased many times over.

Floor Cleaner

- **A01015** 10 L jerrycan
- **A03015** 30 L jerrycan
- **A20015** 200 L plastic drum
- **A10015** 1000 L IBC

BIO-CIRCLE® Liquid



Five high-performance BIO-CIRCLE Liquids guarantee optimum results in parts washing.

The new BIO-CIRCLE Liquid range – the right solution for any application!
The BIO-CIRCLE Liquids are specialists in clean solutions. They stand out for their fast and thorough cleaning performance. The natural micro-organisms they contain degrade the oil ingressed and guarantee long durability and a long serviceable life with a constantly high cleaning performance. The aqueous BIO-CIRCLE Liquids do not contain any solvents, thus avoiding VOC emissions, and meet the requirements of the solvent directive. They do not require placarding/labelling under the Ordinance on Hazardous Substances and EU Directive, and are therefore easy and safe to use, store, and transport.

We will be happy to advise you on which BIO-CIRCLE Liquid is the right one for you. We give competent advice and valuable tips on technically correct parts washing.

VOC free!

natural

The BIO-CIRCLE benefits from the powers of Nature in order to provide for user-friendly, ecofriendly, and economical parts washing. They clean without any solvents or cold cleaners, thus protecting the employee and the environment from highly volatile vapours. The pH-adjusted cleaning medium BIO-CIRCLE Liquid dissolves processing oils, cutting coolants, anti-corrosion products, light greases and similar contaminations as well as particle contaminations from the parts. The easy-to-clean filter system separates coarse and fine contaminations, and the natural micro-organisms biodegrade the greases and oils, thus maintaining the cleaning performance.

simple

The BIO-CIRCLE Liquids are ready to use, which eliminates the risk of incorrect dilution and variations in quality, and the necessity of regular bath analyses. The aqueous BIO-CIRCLE Liquids do not pit the surfaces; all materials from plastics to steel can be cleaned.

profitable

BIO-CIRCLE Liquid features a bath lifetime that is up to four times as long as with cold cleaners. Even with a higher contamination input a constantly good cleaning result is achieved. BIO-CIRCLE Liquid means no hazard to humans and the environment, paired with high efficiency and cost effectiveness.

* The used micro-organism are non-pathogen bacteria of group 1 acc. to Directive 2000/54/EC.
(**Group 1** means that it is unlikely to cause human disease).

BIO-CIRCLE L

Product description in accordance with ÖNORM B 5105:

- **Optimally adjusted to everyday soiling**
- **Oil separator compatible**
- **TESTED IN ACCORDANCE WITH ÖNORM B 5105 Registration number: ON-N 2011 140**
- **Fresh apple scent**
- **Special corrosion inhibitors guarantee temporary protection after cleaning**
- **NSF certified**
- **Improved skin protection through panthenol**
- **Skin-friendliness has been dermatologically tested**
- **Surfactants on the basis of renewable resource**

A02026 20 L jerrycan
A20026 200 L drum
A10026 1000 L IBC

Nonfood Compounds Program Listed (139721) (C1)

BIO-CIRCLE L Turbo

- **Low foaming for mechanical cleaning in the BIO-CIRCLE Turbo**
- **For temperatures of up to 50 °C**
- **With corrosion protection**

A02082 20 L jerrycan
A20082 200 L drum
A10082 1000 L IBC

BIO-CIRCLE L Ultra

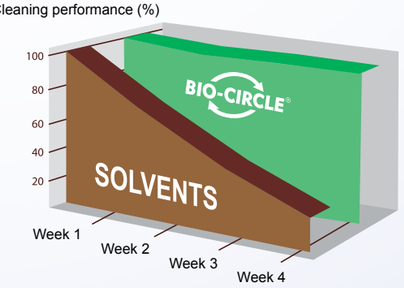
- **Remove strong contaminations, such as bitumen, anti-rust waxes, burned-in grease, oil, oil carbon, coloured pigment**
- **Special corrosion inhibitors guarantee temporary protection after cleaning**
- **NSF certification**
- **Works on basis of renewable raw materials**

A02072 20 L jerrycan
A20072 200 L drum
A10072 1000 L IBC

Nonfood Compounds Program Listed (146757) (A1)

CLEANING CONSISTENCY

Cleaning performance (%)



BIO-CIRCLE L Heavy Duty

- **Removes even heavy oils and greases**
- **Improved cleaning performance especially for tenacious soiling**
- **Without scent – can be added as required**
- **Special corrosion inhibitors guarantee temporary protection after cleaning**
- **Skin-friendliness has been dermatologically tested**
- **For temperatures of up to 45 °C**
- **Surfactants on the basis of renewable resource**

A02098 20 L jerrycan
A20098 200 L drum
A10098 1000 L IBC

BIO-CIRCLE L Aluminium

- **For the cleaning of sensitive materials, such as aluminium**
- **Virtually residue-free**
- **Without scent – can be added as required**
- **NSF certification**
- **Surfactants on the basis of renewable resources**
- **Skin-friendliness has been dermatologically tested**

A02099 20 L jerrycan
A20099 200 L drum
A10099 1000 L IBC

Nonfood Compounds Program Listed (146573) (A1)

STARS

Professional liquid highly concentrated **cleaners and degreasers for mechanical parts washing and degreasing**. Can be applied as **pre- and intermediate cleaners** in the metalworking and metal processing industry and as **VOC substitutes**.

- **Low-foaming, NTA-free, VOC-free**
- **Optimal cleaning temperature at 60 °C**
- **Demulsifying – oil and grease input can be removed by means of mechanical methods (e.g. plate separator)**
- **Very low application concentration (from 0.5%)**

Fields of use • Mechanically parts cleaning in production and maintenance (flow-through spray units, flood- and immersion washing, high pressure cleaning)

Tip:
We'll be happy to provide you with titration regulations and curves for determining the concentration!

Alkaline fine-tuned for the cleaning of steel, iron, casting and plastics. High dissolving power for oil and oil residues, grease- and soot residues.

Highly alkaline cleaner for the removal of most persistent pollution such as oil incrustations, resin formations, anti-friction- and roller bearings, wheel sets or single varnish layers.

VOC free!

STAR 200

- **A03078** 30 L jerrycan
- **A20078** 200 L drum
- **A10078** 1000 L IBC

STAR 300

- **A03079** 30 L jerrycan
- **A20079** 200 L drum
- **A10079** 1000 L IBC

STAR-cleaning	Aluminium	Galvanized surfaces	Non-ferrous metals	Brass, high-gloss polished	High-gloss polished surfaces	Steel/Stainless steel	Plastics	Alkaline-resistant surfaces	Spray cleaning	Immersion cleaning	Low-temperature cleaning
STAR 200	-	-	-	-	-	x	x	x	x	x	x
STAR 300	-	-	-	-	-	x	x	x	x	x	-
ALUSTAR 200	x	x	x	-	-	x	x	x	x	x	x
ALUSTAR 300	x	-	-	-	-	x	x	x	x	x	x

Saving energy with the bio-chem cleaners

STAR 200, ALUSTAR 200 and 300:
Specially developed for low-temperature cleaning.
These cleaners already operate effectively at ambient temperature.

CLEANBLUE

STAR US

The innovative optimization of ultrasonic cleaning

The STAR US cleaners will **optimize ultrasonic cleaning performance.** The selected surfactants and active ingredients are constantly active in strong intensive cleaning (25 kHz) as well as in fine cleaning (45 kHz).

- **Water-based cleaners, NTA-free**
- **Surfactants are biodegradable in accordance with European Regulation**
- **Highly concentrated**
- **Demulsifying**

STAR US-Reinigung	Aluminium	Galvanized surfaces	Non-ferrous metals	Brass	Stainless steel	Steel	Plastics	Alkali-resistant surfaces	Acid-resistant surfaces
STAR US 1	x	-	x	x	x	-	x	-	x
STAR US 2	-	-	-	-	x	x	x	x	-
STAR US 3	-	-	-	-	x	x	x	x	-
STAR US 4	x	x	x	x	x	x	x	x	-
STAR US 5	-	-	-	-	x	x	x	x	-

VOC reduced!

VOC free!

Acidic cleaning concentrate. Will remove rust, limescale, oxides and mineral deposits from acid-resistant parts and surfaces. Not subject to mandatory labelling.

STAR US 1

VOC reduced!

- **A00553-1** 5 L jerrycan
- **A01053-1** 10 L jerrycan
- **A03053-1** 30 L jerrycan

Alkaline universal cleaning concentrate. Will remove oil, grease, soot, cooling lubricants, coking residues, tinder, dust, fingerprints etc. Not subject to mandatory labelling.

STAR US 2

VOC reduced!

- **A00553-2** 5 L jerrycan
- **A01053-2** 10 L jerrycan
- **A03053-2** 30 L jerrycan

For the removal of oil- and grease contaminations and pigment contaminations that are difficult to remove. Alkaline. Gentle on the material, aluminium and non-ferrous metals will not be affected.

STAR US 3

VOC free!

- **A00553-3** 5 L jerrycan
- **A01053-3** 10 L jerrycan
- **A03053-3** 30 L jerrycan

Will remove persistent oil- and grease contaminations even from very rough surfaces. Will not affect aluminium and castings. Alkaline.

STAR US 4

VOC free!

- **A00553-4** 5 L jerrycan
- **A01053-4** 10 L jerrycan
- **A03053-4** 30 L jerrycan

Strong alkaline cleaner. Will remove extreme contaminations such as incrustations, cracking, and resinifications. Can also be used to remove thin layers of varnish.

STAR US 5

VOC free!

- **A00553-5** 5 L jerrycan
- **A01053-5** 10 L jerrycan
- **A03053-5** 30 L jerrycan

BIO-CIRCLE

BIO-CIRCLE

NEW

CleanBlue by Bio-Circle

100 % performance at ambient temperature already. Energy-efficient parts cleaning for removing oils and other common contaminations. And all that without any solvents, benzines or cold cleaners. The water-based cleaners are suitable for use in maintenance, production, parts cleaning, service, and any sector of the industry

BIO-CIRCLE L Blue

NEW

Resource-efficient surfactant-based cleaner for use in the BIO-CIRCLE Blue parts washer. For **pH-neutral** cleaning and degreasing of small parts in workshops, industries and service. Contains microorganisms that degrade introduced oils, thus guaranteeing a long cleaning bath service life.

- **Water-based cleaning fluid – non-combustible**
- **Low-energy cleaner**
- **Free from VOC in accordance with 1999/13/EC**
- **No labelling required under the CLP regulation**
- **Surfactants on the basis of renewable raw materials**

NATURE BOOST

VOC free!

A02090 20 L jerrycan
A20090 200 L drum
A10090 1000 L IBC

Field of use • Fill into the BIO-CIRCLE Blue parts washer as concentrate.

CB 100

NEW

Nature Boost cleaner with high dissolving power. The water-based power cleaner for use in the BIO-CIRCLE Blue parts washer or for manual cleaning. Removes persistent contaminations, such as special greases that are difficult to remove, rubber traces, waxes and bitumen, from surfaces.

- **VOC-free**
- **No labelling required under the CLP regulation**
- **Alternative to solvents or petroleum**
- **Low-energy cleaner**

VOC free!

NATURE BOOST

Field of use • For universal or mechanical use

- Ideal for the pre-cleaning of very persistent contaminations in the BIO-CIRCLE Clean Box, Clean Box Maxi 1, Clean Box Maxi 2, or Clean Box Flex

A01025 10 L jerrycan
A03025 30 L jerrycan
A20025 200 L drum
A10025 1000 L IBC

Bio-Circle Surface Technology GmbH

Berensweg 200
D-33334 Gütersloh
Telephone: +49 (0)5241 9443-0
Telefax: +49 (0)5241 9443-44

E-mail: service@bio-circle.de
www.bio-circle.de

MAKING GREEN WORK.

NEW

BIO-CIRCLE®

Always on the safe side.
VOC-free cleaning

VOC free!

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