

# DUNAGRO

Plant Products

.....  
**OVER**  
**25**  
**YEARS**  
**OF PURE**  
**INDUSTRIAL**  
**HEMP**  
EXPERIENCE  
.....

At the Top of Our Game



OVER 25 YEARS OF EXPERIENCE WITH INDUSTRIAL HEMP.  
25 YEARS AS A GROWER OF HEMP. A PRODUCTION  
FACILITY, LAB, WAREHOUSE AND OFFICE AT  
A SINGLE LOCATION: OUDE PEKELA IN THE NETHERLANDS.

It is now more than 25 years since our CEO Mr. Albert Dun first decided to focus all his long experience and his love for people and for nature on the cultivation of an ancient and wonderful product: **industrial hemp**. Please visit our website [www.dunagrohempgroup.com](http://www.dunagrohempgroup.com) to discover how a globally active and professionally-run company has grown from the first hemp seed that he planted all those years ago.

15 years later, we decided to specialise in the making of and marketing of CBD.

This was not simply jumping on the CBD bandwagon but a natural continuation of our business within this dynamic market: producing CBD from our own industrial hemp plants. 365 days a year.

Our in-house production allows us to keep a grip on things like flexibility, quality, efficiency and fast delivery times.

Dun Agro Plant Products BV is an excellent business partner. We guarantee:

- High quality products, provided with a COA.
- Fast delivery times.
- Flexibility and quick response to changes in demand.
- Customer-oriented production.
- Efficient layout and flow across our entire CBD production process.
- Products nurtured from seed to end product by own highly-trained staff.



## Our Philosophy

We would not claim to be the only players in the worldwide industrial hemp market. We are not alone in Europe or even in the Netherlands. But we do believe that in many respects we stand out from the crowd:

- 1 Our lifeblood is passion, dedication, attention to people, our crop, our products and our procedures.
- 2 The 'Whole Plant Approach': We do not merely use the tops and leaves of the hemp. The stems are processed in other Dun Agro departments for the animal, paper, automobile and building industries. This helps to make our company even more sustainable.
- 3 Our own, skilled people oversee the entire process, from the moment that the hemp seed is sown in the ground to the CBD product that leaves the factory.
- 4 We share our knowledge with our relations and customers. Providing insights into hemp and its capabilities and limitations is key to achieving joint successes in the segments in which we operate globally, both B2B and B2C.





# Dun Agro Plant Products. We take care of the **planet**, the **plant**, the **soil** and **you**.

## Some facts about our hemp:

Did you know, for example, that **hemp absorbs large amounts of CO<sub>2</sub>**?

It is well known that carbon dioxide (CO<sub>2</sub>) is one of the most common of the greenhouse gasses that drive climate change. CO<sub>2</sub> is emitted by fossil fuels, livestock, and many industrial processes. **Plants absorb CO<sub>2</sub>**, which is why planting trees is one of the most popular ways to offset carbon emissions. **Industrial hemp absorbs significantly more CO<sub>2</sub> than most common trees and plants.** However, you can only achieve a **satisfactory CO<sub>2</sub> footprint** if you make use of the entire plant (the Whole Plant Approach).

- 💧 Hemp can absorb carbon much more efficiently than many other plants and trees.
- 💧 While it can take decades for newly-planted trees to reach maturity, hemp can grow 10 feet (3m) in just 90 days.
- 💧 Our hemp absorbs more carbon per hectare than trees, making it an ideal carbon sink.
- 💧 Hemp can be grown just about anywhere, dramatically increasing the land that can potentially be used to sequester carbon.

## Hemp prevents erosion

Erosion is a natural process. Wind and water disturb the soil, often causing it to drain into nearby waterways. Erosion not only strips away topsoil, damaging fields and reducing crop yields, but it can also introduce chemical fertilisers and pesticides into waterways. This is a threat to local wildlife and can affect drinking water.

Our hemp helps prevent field erosion. Hemp roots grow fast and deep, **helping to bind the soil and protecting it from the erosive effects** of the elements. **Erosion also leads to a decrease in nitrogen.** Hemp roots ensure that the soil retains nitrogen so that the plant can use it to produce chlorophyll. Efficient and environment friendly.

## No need for pesticides

Our hemp is naturally resistant to many of the diseases and pests that threaten other cash crops. There is **no need for pesticides or herbicides** in our hemp fields. Chemical pesticides and herbicides provide protection from pests but cause unintended damage to valuable insect populations.

## Reduced water usage

Water has become a precious resource, and the situation is becoming ever more serious now that record-breaking droughts are having a huge impact locally and across the world. Many of the most popular cash crops demand large amounts of water, which in turn puts a great strain on local communities. Although hemp is not officially designated as a drought-tolerant plant, **it requires much less water than many other popular crops.**

## Hemp as a building material

The building and construction sector is one of the biggest polluters on the planet, contributing 36% of annual greenhouse gas emissions. Hemp-derived building materials **reduce the carbon emissions of the construction industry while promoting greater energy efficiency in the home.**

Building with hemp has **numerous environmental, technical and health benefits.** If you would like to know more about using hemp in the construction of your business premises, your private property or your investments please contact us. We'd love to discuss **building a better world** with you.

# Dun Agro Plant Products: ***Harnessing the Full Spectrum***

The hemp plant contains over five hundred different components besides CBD. 'Full Spectrum' is about making use of the full range of components. Besides cannabinoids, the hemp plant can contain terpenes, chlorophyll and flavonoids, to name but a few examples.

The Israeli scientists Shimon Ben-Shabat and Raphael Mechoulam have introduced the so-called "Entourage Effect". Each hemp plant has its own "profile", with varying percentages and proportions of cannabinoids, terpenes and other substances. These substances each have their specific beneficial effect but there is also a synergy: the substances can influence or reinforce each other's working. This is the principal reason why we prefer a full spectrum oil to "simple" CBD.

Dun Agro Plant Products' full spectrum oils are manufactured with hemp extracts using supercritical CO<sub>2</sub> extraction. CO<sub>2</sub> extraction is a method for deriving specific substances from organic components, without recourse to heating or harmful substances.

It is important to avoid heating in order to preserve as many components as possible. Heating can destroy elements such as terpenes, thus losing the benefits of these natural fragrances and flavours. Another disadvantage of heating is that while CBDA is converted into CBD, the non-psychoactive substance THCa is, at the same time, converted to THC.



A closer look:  
From seed to final product.  
A product that is safe for consumer use.





## Our bulk dried hemp

- 1 Organic dried tops and leaves.  
Often used as a natural organic hemp tea.  
Sold in big bags with nitrogen gassing. (100 kg-150 kg).
- 2 Pelletized dried top and leaves.  
Either Normal or Organic.  
Often used for CO<sub>2</sub> extraction or as animal feed. Sold in big bags with nitrogen gassing. (1000 kg-1400 kg).



Bulk hemp pellets are packed in gassed big bags to guarantee quality.



## Our bulk critical CO<sub>2</sub> extractions

- 1 Raw hemp extract 4%-10%
- 2 Gold extract 4%-10%
- 3 Refined hemp extract 4%-10%
- 4 Refined gold hemp extract 4%-10%
- 5 Winterized refined hemp extract 4%-10%
- 6 Distillate extract 7%
- 7 Isolate 98%



We ship critical CO<sub>2</sub> extractions in bulk to all corners of the world. We ship in polyethylene (HDPE) drums with rubber sealing screw cap, sealable, EPDM seal.

Feel free to enquire about our shipping options.



## Our bulk CBD oils

- 1 Full spectrum ready to use oil
- 2 Winterized full spectrum ready to use oil
- 3 Distillate full spectrum ready to use oil
- 4 Isolate ready to use oil

*We ship in bulk all over the world our CBD oils in polyethylene (HDPE) drums with rubber sealing screw cap, sealable, EPDM seal.*



OUR CBD  
PRODUCTS  
ARE  
DIETARY  
SUPPLEMENTS

## Ready to use CBD consumer/animal products

- 1 Bulk oils in bottle with dripper  
(10ml/20ml/30ml/50ml) fully automatic  
filling line
- 2 CBD soft gel capsules in bulk and  
in jars (5mg/10mg/20mg)
- 3 Dog tablets
- 4 Horse pellets
- 5 Body butter in jars
- 6 Salve in containers  
or bulk



Please  
ask about  
our shipping  
possibilities.





**DUNAGRO**

Plant Products





# At the Top Of Our Game

- Our vision of fibre hemp and CBD products, from production to consumer, has helped us become the most professional CBD company in Europe.
- High-quality production procedures.
- Production and product control in our own laboratory.
- Product development in collaboration with brand owners and Private Label developers.





# Our own lab and R&D department.

Our CBD products are extensively tested by our own lab technicians before shipping, to determine the exact CBD and THC content of the product.

The cannabinoids in our extracts and oils are tested using HPLC (*High Performance Liquid Chromatography*).

The HPLC method does not require heating the product and consequently gives a good representation of all cannabinoids present. These values are recorded in a COA (*Certificate of analysis*) and are included with the product.

**OUR GOAL IS TO DEVELOP INDUSTRIAL HEMP-BASED  
CONSUMER PRODUCTS OF A CONSISTENTLY HIGH QUALITY.**

To be used as first choice treatment and as natural alternatives to commonly used supplements.



Please  
ask about  
our shipping  
possibilities.

*The R&D team is comprised of skilled specialists including management, chemists and formulation specialists.*

*Our team combines years of R&D experience with extensive know-how and expertise in the consumer cannabis industry.*

**The team is committed  
to the development of new  
cannabis-based products to  
meet consumer needs.**



Please contact our salesteam about  
pricing, order quantities, shipping and our  
terms and conditions.

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Feel free to  
enquire about options,  
conditions and  
opportunities.







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