



FIRE ECO HAZARD PREVENTION CONTROL SUPPRESSION

HC SOILTEQ/AQUATEQ

SOILTEQ is a special Bioversal oil-cleaning agent for cleaning soil polluted with oil products, whether using soil-cleaning systems or in-situ methods. Thanks to adding SOILTEQ, the biodegradation of hydrocarbons, fats, PCBs and PAHs is greatly accelerated, making cleaning faster and cheaper. Thanks to use of SOILTEQ, already existing cleaning systems can be greatly improved and the processes involved speeded up. This results in shorter cleaning times and improved efficiency in current cleaning methods.

SOILTEQ oil-cleaning agents are derived from the unique basic product HC, thus fully retaining their environmentally-friendly characteristics. No bacteria or enzymes are

used in SOILTEQ and it is not a nutrient. That means that the application of SOILTEQ does not additionally pollute the soil matrix to be bioremediated.

With SOILTEQ prepared waste water, byproduct of soilcleaning during bioremediation projects can be efficiently treated with Bioversal's mobile/permanent TWIN REACTOR SYSTEM. AQUATEQ has been specially developed for use in biological waste-water treatment plants, bioreactors and purification systems. They sharply accelerate the biodegradation of oil products, considerably increasing the capabilities of these systems.

AQUATEQ immediately encapsulates the contaminants, making them far less toxic to

micro-organisms. AQUATEQ transforms toxic hydrocarbons $C_4 - C_{40}$, BTEX, PAH in to a feasible and accelerated job for microbiology, reestablishing natural balance in water treatment plants.

AQUATEQ has an impressively high rate of biodegradability (in line with OECD 301) and the biodegradation process requires relatively little oxygen ($COD=133 O_2$ mg/liter). No micro-organisms, enzymes or nutrients have been processed into the product.

AQUATEQ does contain a bioactivator, however, which enables the accelerated biodegradation of oil products. This pH-neutral product is non-toxic and it has a German water hazard classification of 1.



- ⚙️ **Highly effective oil-spill cleaning without water hazard**
- ⚙️ **Highly biodegradable**
- ⚙️ **Accelerates biological degradation of all hydrocarbons**
- ⚙️ **Dermatologically tested**



pH-neutral oil-cleaning agent for immediate ecological defence, cleaning and elimination of large scale oil-spills at sea, on lakes, rivers, shores and beaches. Suitable for operations using special equipment.

Oil-spills at sea, on lakes and rivers
 Remove large oil quantities mechanically. Dilute HC with water and spray directly on the remaining oil. Still water should be agitated. HC is suitable for special equipment and can be used with fresh water or seawater.

Oil-spills on shores and beaches
 Remove large oil quantities mechanically. Dilute HC with water and apply. Treat the pollution area vigorously using high-pressure equipment and/or manually. The dilution rates of HC to water vary from
 crude oil 1 : 50 to 1 : 100
 refined oil 1 : 200 to 1 : 300

For safety guidelines see material safety data sheet. For technical information see technical data sheet. Storage between +0°C - +50°C in sealed container. Shelf-life > 5 years in sealed container. Water hazard classification 1 (concentrate).

International licences
 Approved by MPA, Germany and Dutch Rijkswaterstaat for oil-spill cleaning on road surfaces.

Removal of oil-spills in coordination with authorities!
 UBA-No. 20780046 / Product-No. FE102
 Continuous quality control / Made in the EU

Name	pH-value	Application	Product description
HC	ca. 7	0,5%-6%	pH-neutral oil-cleaning agent for immediate ecological defence, cleaning and elimination of large scale oil-spills at sea, on lakes, rivers, shores and beaches. Suitable for operations using special equipment.
HC AQUATEQ	ca. 7	0,5%-10%	pH-neutral product to enhance and accelerate the biological degradation of oil. For use in biological water treatment plants, bioreactors etc.
HC SOILTEQ	ca. 7	2%-10%	pH-neutral product for decontamination of hydrocarbon polluted soil and heavily hydrocarbon polluted soil e.g. PCBs, PAHs etc.. Suitable for soil washing equipment (biophysical extraction methods). Suitable for in-situ and on-site methods.



Bioversal® is also the designation for a series of high-quality oil-cleaning agents. All these products are composed of environmentally safe biochemical ingredients and accelerate the biodegradation of pollution with the assistance of the microorganisms that occur everywhere in nature. It is exactly because of this environmentally-friendly approach that the cleaning process is so highly effective.



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