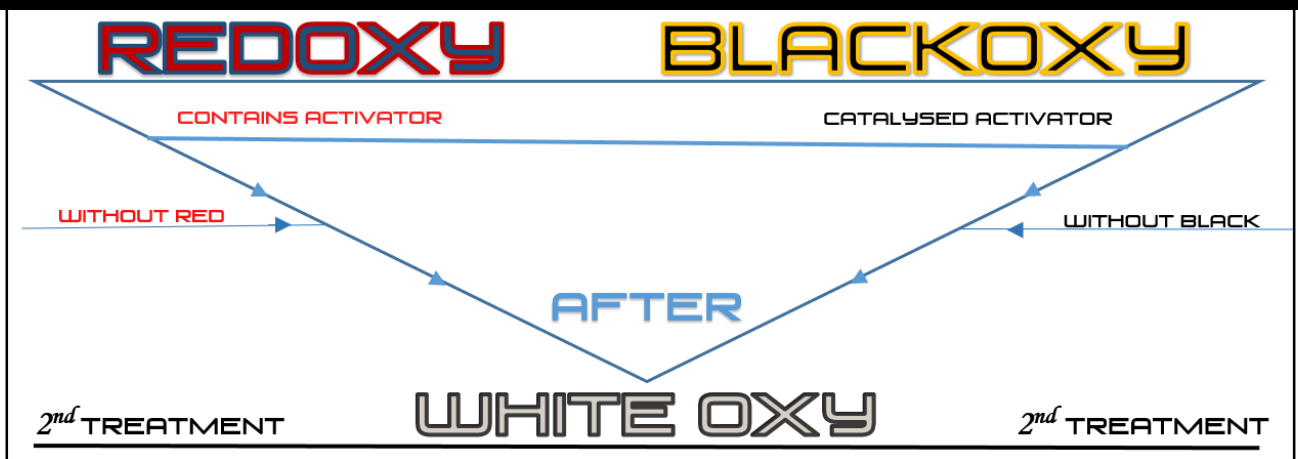


# WHITE OXY

## WITHOUT ACTIVATOR



### WhiteOxy

"A New Technology from Watch-Water<sup>®</sup> for Waste/Ground Water, Surface Water & Sludge treatment without Activator for second and continues treatment"

#### Introduction

Watch-Water<sup>®</sup> a leader in Advanced Oxidation technologies for all contaminated water's introduces; "WhiteOxy" Catalysed Oxidizer for Chemical Oxidation of organics, hydrocarbons including heavy duty wastewater. By design, WhiteOxy simplifies the activated oxygen process to reduces costs and handling by offering all environmental professionals a new, two in one reagent without a built-in-activator. There is no hazardous chemical involved in this process, and its performance is equivalent to the first treatment with REDOXY & BlackOxy. In the field, the material is easily sprayed over the contaminated area using common Granules Dozers or spraying tools.

Additionally, the WhiteOxy increases the product effectiveness by providing Additional Oxidation to cover aggressive Oxidation reactions, can be repeated once or twice a year depending on the amount of contaminants. WhiteOxy is "Direct chemical oxidation which brings oxidant and contaminants together". WhiteOxy is composed of the Oxidant creating strong and aggressive sulfate radicals, mixed with a permanent oxygen release technology and adsorb both organics & inorganics on it's surface to accelerate Oxidation. It is a true Oxidizer and is therefore considered to be "Green-green"

"Generally speaking"

How effective is REDOXY/BlackOxy at addressing heavy-contaminated end products like lakes, waste-water, sludge, soil or landfill leachate?

Both REDOXY and BlackOxy will chemically oxidize organics, Hydrocarbons and nonorganic including phenol compounds. Depending on the mass of contamination and remediation objectives, WhiteOxy can be applied as second treatment to destroy further contaminants to sludge, soil and waste-water in order to deep ground water clean. White is definition of keeping water clean forever.



PREMIUM QUALITY  
MADE IN GERMANY

# WASTE DISCHARGE PROBLEMS

## Problems of Discharge

Discharge of sewage waste, fertilizers, phosphates, nitrates, volatile organic compounds (VOCs), heavy metals, pesticides, perchlorate petroleum hydrocarbon compounds, phenols, 1,4-dixane and 100 types of different contaminants have degraded **lagoons**, lakes, rivers all surface water including ground water at various sites throughout the world, and have impacted horrible and threatening to impact beneficial use of these water's. Additional discharge of chemicals and pharmaceuticals has made it very hard to clean these waters.

Biological treatment is the only true and best treatment to clean these contaminants.



- d) The proposed use of **WhiteOxy** will bring back life and quality of water which is contaminated water in wells, surface, ground/waste water including landfill **Leachate**.
- e) With a proper management, as required great potential results will be observed in a very short time duration and these results will be without adding any added hazard chemicals, flocculants, disinfection products like Aluminum, copper or Chlorinated solvents.



- f) The high quality water of any state (in the world) will be maintained. That smell, odor, which is disturbing for people will be removed. The water quality will be dramatically better.
- g) The purpose of using **REDOXY** or **BlackOxy** followed by **WhiteOxy** is to accelerate and clean water problems caused by waste water or other contaminants discharge for the health benefits of (people of the country), state village or community.
- h) **WhiteOxy** is the best practicable and assure protection of water quality



## WhiteOxy Benefits

Includes process such as oxygen enhancement, chemical oxidation, chemical reduction, BIOSTIMULATION.

- a) Adsorption of nutrients to enhance biodegradation
- b) Supplying oxygen for 365 days a year
- c) For this particular application only injection of **WhiteOxy** a proprietary formulation of **Watch-Water® Germany, Mannheim** will solve any oxygen problem for 365 days a year. A total volume of 50 grams per cubic meter of contaminated water will be sprayed, which is capable of destroying target contaminants at any sort of water or waste water including soil & sludge.

## WATCH WATER DISCHARGE PROHIBITIONS

- Water's cleaned with **REDOXY** or **BlackOxy** continued with **WhiteOxy**. (any sort of discharge of wastes in these waters is prohibited)
- The discharge of any untreated solid or liquid waste into the treated waters is prohibited, unless that discharge is permitted by the city of state of the country by regional board
- The use of any other treatment than **REDOXY- BlackOxy** – follows by **WhiteOxy** is prohibited.
- The discharge of any aluminum, copper or biological biocide agent or high level of polymer waste is prohibited
- Discharges to clean ground water, surface water, lakes, rivers and the surroundings which that is conducted, in a manner that increases the contaminants through discharge is absolutely prohibited. Additionally discharge from factories, industries or commercial zones is prohibited. Discharge of human or animal waste is prohibited under any conditions.
- The discharge shall not cause clean waters to contain taste or odor, which is producing substances at concentration that cause a nuisance or adversely affect health.
- Watch-Water® Germany** requests all executive officers to take step forward to clean their sewage, waste water, lakes, polluted surface water with **REDOXY** followed by **WhiteOxy**. Extreme polluted site as example landfill leachate with **BlackOxy** followed by **WhiteOxy**.
- Any discharged shall report as noncompliance that may endanger health or environment. The discharge shall take all reasonable steps to minimize or correct any adverse impact on the environment.

### Parameters and Frequencies

Sample Parameter	General Parameter	Units	Sample Location	Month 1	Month 2	Month 6
pH	Yes	mg/l		X	X	X
Temperature	Yes	mg/l		X	X	X
Turbidity	Yes	mg/l		X	X	X
Conductivity	Yes	mg/l		X	X	X
Oxidation Reduction Potential	Yes	mg/l		X	X	X
Dissolved Oxygen	Yes	mg/l		X	X	X
Hydrogen Sulphide	Yes	mg/l		X		X
Chemical Oxygen Demand	Yes	mg/l		X		X
Biological Oxygen Demand	Yes	mg/l		X		X
Total Organic Compound	Yes	mg/l		X		X
Anion Chloride Nitrates Sulphates Bromates Phosphates	Yes	mg/l		X		X
Cations Sodium Calcium Magnesium Potassium	Yes	mg/l		X		X
Total Dissolved Solids	Yes	mg/l		X	X	X
Alkalinity	Yes	mg/l		X		X
<b>Dissolved Metals</b>						
Arsenic	Yes	mg/l				
Barium	Yes	mg/l				
Cadmium	Yes	mg/l				
Chromium	Yes	mg/l			X	X
Copper	Yes	mg/l			X	X
*Aluminium	Yes	mg/l			X	X
*Lead	Yes	mg/l			X	X
*Selenium	Yes	mg/l			X	X
*Hexavalent Chromium	Yes	mg/l			X	X
1,4 - dioxane	Yes	mg/l			X	X

\* Contaminants of concern

Note: Dissolved Oxygen has to be all times at least 8 mg/l

### Recommendation

Conclusions and parameters regarding continuation of the **WhiteOxy** process or any changed or modification shall be immediately presented to **Watch-Water®** for consideration, along with appropriate supporting justification or rationale.