



making the world
a greener place

Company Profile

One of the greatest environmental problems worldwide is the contamination of soil and surfaces by oil and other pollutants. With arvox, Arva Greentech offers a unique process for the environmentally neutral degradation of hydrocarbons.

COMPANY

Arva Greentech AG specialises in the decontamination of soils and gravel

Arva has developed Arvox, a patented oxidation process that degrades a wide range of hydrocarbons efficiently, economically and environmentally friendly. These include compounds found worldwide in railway installations, contaminated soils and mineral waste.

Our products and services are based on environmentally neutral chemical processes, which are developed, tested and constantly optimised by our scientists. The development and optimisation follow the latest scientific findings and guarantee a verifiable environmental safety.

ARVA IS

- ✓ **unique**
Unparalleled methods for hydrocarbon degradation
- ✓ **global**
Patented oxidation procedure Arvox to be utilised globally conforming to international standards
- ✓ **flexible**
Arvox can be used as a stand alone-solution or in combination with an existing technology to provide a cost-effective and efficient solution
- ✓ **green**
100% eco-friendly. The end products are bio-degradable
- ✓ **qualified**
A dedicated team of experienced professionals with substantial knowledge in the sector

PROCEDURE

Arvox-patented superoxidation

With Arvox, Arva Greentech offers a process for the fast and environmentally friendly degradation of hydrocarbons in contaminated soils, track beds and other substrates.

Arvox works with two liquid components (Arvox A + Arvox B). Their reaction generates oxygen radicals that break down organic pollutants quickly and efficiently. The results are environmentally neutral end products - mainly water, oxygen and sodium carbonate.

Arvox can be used alone or in combination with other methods to achieve the best results in different ecosystems.

CONTAMINANTS

Spectrum of treatable pollutants

Arvox destroys most hydrocarbon compounds, especially petroleum oil hydrocarbons, BTEX, PAH, glyphosate and other herbicides.

APPLICATION

In-situ

- With spraying systems for superficial and near-surface contaminations
- ISCO technology through wells

Ex-situ

- Spraying on stationary or mobile soil cleaning systems
- Mixing mode with mobile mixers

AREAS OF APPLICATION

Gravel cleaning ¹

- Removal of contamination and residues
- Optical cleaning of track beds (e.g. in station areas)

Soil remediation ²

- Removal of contamination and residues
- Can be combined with biological purification processes (in situ & ex situ)

Soil cleaning facilities ³

- Removal of contamination and residues in chemical-physical and biological soil cleaning facilities
- Can be combined with biological purification processes

Surface cleaning ⁴

- Removal of moss, vegetation, fats and oils on metal and concrete surfaces or facades



1 Track bed and gravel cleaning



2 In-situ and on site remediation via ISCO or mobile cleaning plant



3 Integration into soil cleaning facilities



4 Decontamination and cleansing of concrete and metal surfaces



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