CYBERCHEM
ENVIRONMENTALS

MX-80 HYDROCARBON REMEDIATOR

MX-80 Hydrocarbon Remediator is a complex blend of proprietary chemistry and remediation additives, offering rapid reductions of a broad spectrum of organic pollutants, with the combined benefits of the rapid reaction rate of chemistry, combined with the security of long-term microbial remediation. All-encompassing in situ remediation cutting labour, transport and disposal fees.

When applied to contaminated soil, a nominal reaction time renders the contaminant irreversibly altered and the contaminant now no longer possesses its chemical fingerprint. The conversion and encapsulation process results in harmless reaction products such as organo-silicates. These organo-silicates are then consumed by the microbes contained in the **MX-80** product, resulting in a total elimination of the Hydrocarbon pollutant.

MX-80 contains a unique blend of different microbe strains used to effectively degrade both aromatic and aliphatic hydrocarbons. These reinforce or augment the natural biological process; thus a full bioremediation approach is achieved when using **MX-80**.

MX-80 Hydrocarbon Remediator confirms to non-hazardous substances defined under the Clean Water Act, RCRA, the Clean Air Act, and TSCA. It is not a carcinogen and is not listed on OSHA, IARC, or NTP Monograms. It also passes the 48-hour Acute Toxicity Bioassay at 12.5% concentration for both fathead minnow and Daphnia pulex.

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CYBERCHEM
CHEMICAL MANUFACTURERS
www.cyberchem.co.za

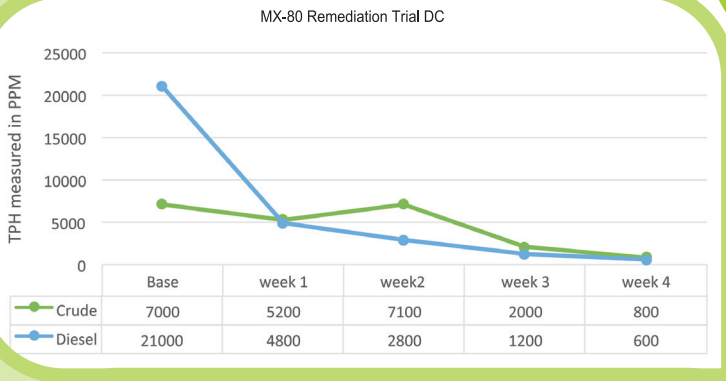
BENIFITS:

Non-Toxic
Water soluble
Non- flammable
Biodegradable
Enhances plant growth

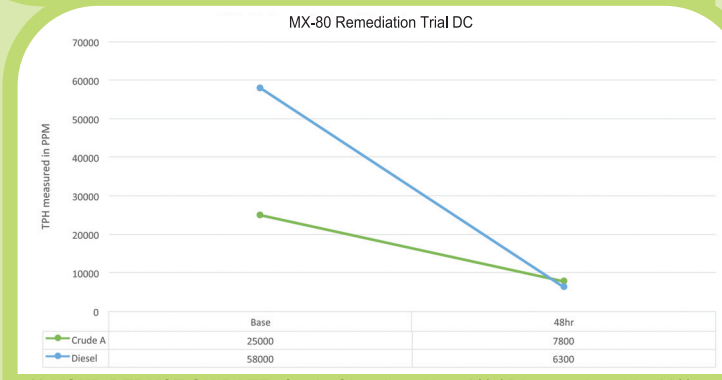
USES OR APPLICATIONS:

Soil remediation
Oil & Hydrocarbon spills
Cleaning of intertidal zones
River and waterbody remediation
Odour control
Pesticides
Heavy Metals

MX-80 REMEDIATION CYCLE



	Base	week 1	week2	week 3	week 4
Crude	7000	5200	7100	2000	800
Diesel	21000	4800	2800	1200	600



48 HOUR REDUCTION RATE: Crude Oil reduced by 70% / Diesel reduced by 90%
1 WEEK REDUCTION RATE: Crude Oil reduced by 76% / Diesel reduced by 98%.

USES & METHOD

SOIL REMEDIATION

- It is always advisable to take soil samples to determine soil type, degree of contamination and depth of contamination.
- Once the TPH has been determined, additional soil samples dosed with **MX-80** at various ratios to be tested at various intervals 72 hours, 1 week, 2 weeks will indicate the optimum time/cost method.
- As a rule of thumb, the area should be saturated with a 50/50 mixture of **MX-80** and water. A dosage rate of 5-7 litres per 1 metre≥ of soil at a 50/50 ratio can be used as a guide for contaminations lower then 25000ppm.
- Shake or mix the **MX-80** especially when the product has been in storage for long periods or when temperatures drop below 5°C.
- **MX-80** can be sprayed, poured, or injected depending on depth of contaminant and soil type.
- Ensure correct PPE is used at all times.
- Where the contaminant is on or near the surface, the soil can be sprayed at the desired rate, raked, turned manually or mechanically, and sprayed again.
- Allow 24 hours to react and then lightly water to assist with the silicates freedom of movement in making contact with the pollutant.
- Repeat the process after 24 hours.
- Regular sampling as per lab analysis will ensure targets are being achieved.
- In areas of deep contamination and injection is required, it is advisable to contact a reputable spill clean-up company for application.

Global GreenTag accreditations are one of the world's most robust, trusted and widely recognised ecolabels in over 70 countries, including the UK, EU and USA.

We independently assure that every product is fitness tested and certified under one of our two leading certification programs that use the world's best scientific methods. That's why we have earned the reputation and trust of thousands of buyers.

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CYBERCHEM also supply the absorbents that are used in conjunction with the MX Range.

Please see absorbent brochure.