

# **SERVECA Inc**

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## ***ECO FIX SERVEC***

# PRODUCT DESCRIPTION.

## ECO FIX SERVEC

- Made from completely renewable annual agricultural crop (NO depletion of natural resources)
- All natural and 100% biodegradable. Non-toxic to humans and NO adverse effect on plants or animals
- May be used for spills on land, water or as a floor sweep
- Absorbs up to six times its weight
- Has less than 1% leaching capability
- Lightweight thus reducing landfill or incineration disposal costs
- HYDROPHOBIC. NOT** soluble in water
- Removes harmful and flammable **GAS VAPOR**

# CHEMICALS & HYDROCARBONS

**ECO FIX SERVEC**

The following chemicals and hydrocarbons can be absorbed by **ECO FIX SERVEC**

ACETONE	DIESEL FUEL	MOTOR OIL
AMONIA	ETHANOL	NAPHTHALENE
BENZENE	ETHYLBENZENE	NITROBENZENE
BUTANOL	ETHYLENE GLYCOL	PAINT (OIL BASED)
2-BUTANONE	GASOLINE	PENTANE
BROMOFORM	GLYCERINE	PHENOL
CARBON DISULFIDE	HEXANE	PROPANOL
CARBON	HEXACHOLOROBENZENE	STYRENE
TETRACHLORIDE	ISOPRENE	TETRACHLOROETHANE
CHLOROFORM	JET FUEL	TETRACHLORETHYLENE
CHLOROMETHANE	KEROSENE	TOLUENE
CHOLOROBENZENE	METHANOL	TRICHLOROETHYLENE
CUTTING OILS	METHYLENE CHLORIDE	VINYL ACETATE
DICHLOROBENZENE	METHYLPHENOL	VINYL CHLORIDE

# POTENTIAL USERS

ECO FIX SERVEC



- ❖ Fire Department
- ❖ Police Department
- ❖ US Air Force
- ❖ Gasoline Station
- ❖ Transit Authority
- ❖ HAZMAT

- ❖ Refinery
- ❖ Oil Fields
- ❖ Shipping Ports
- ❖ Shipping Lines
- ❖ Auto Repair Shop & Garage
- ❖ Parking Garage

# IN-SITU BIOREMEDIATION

**ECO FIX SERVEC**



The indigenous **MICROBES** combined with essential nutrients makes **ECO FIX SERVEC** effective in bioremediation

When applied to hydrocarbon-contaminated soil, **ECO FIX SERVEC** absorbs more than 55% of oil in less than 24 hours.



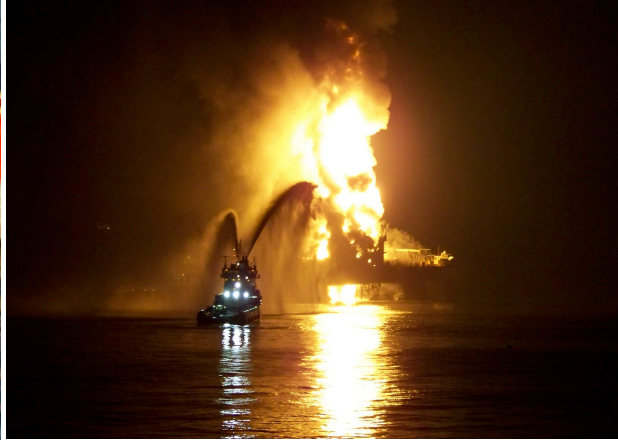
Using typical land farming techniques, this process can be completed in as little as 90 days, depending on soil conditions, climate and moisture levels.

By treating waste at the spill site, the need for soil removal, transportation, disposal and soil replacement is **ELIMINATED**.



# OIL SPILL ON WATER

**ECO FIX SERVEC**



- **ECO FIX SERVEC** is **HYDROPHOBIC** and will remain afloat for long period of time, allowing for easy removal.
- Set containment booms and spread **ECO FIX SERVEC** manually or mechanically. Recover using screened forks, skimmers or vacuum devices.
- **ECO FIX SERVEC** meets or exceeds **EPA requirements** and. Meets or exceeds **Coast Guards requirements** for usage of natural absorbent

# WASTE LANDFILL

ECO FIX SERVEC



It is known that the mixing of hazardous waste with organic waste and leachate generate decomposition which affect the various layer of the landfill, with it also results in the consequent pollution of the groundwater which is dangerous to the immediate and surrounding population and which is usually their resource for water supply.

**ECO FIX SERVEC** not only eliminates the development of harmful gases from these landfill, such as **Methane gas** by removing it's harmful vapor, thus removing the **TOXIC** odor from the air.

# MSDS. ECO FIX SERVEC

## ECO FIX SERVEC

### ECO FIX SERVEC

Granular organic absorbent product  
Superior performance and biodegradable

#### SERVECA INC

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Trade Name: ECO FIX SERVEC  
Chemical Family: Plant by-products  
CAS Number: Trade Secret  
Chemical Formula: Proprietary

#### Hazardous Ingredients

Hazardous Components This material is not considered hazardous as per  
CFR 19.10.120

% Confidential

TLV Units None Established

Product CAS # Trade Secret

All ingredients in this product are in the TSCA inventory list.

#### Physical Data

Boiling Point (F) N/A

Freezing Point (F) N/A

Vapor Pressure (mm hg) N/A

Vapor Density (air =1) N/A

Solubility in H2O Not Soluble

Appearance/Odor Contents- light brown to gray/mild odor.

Covering-white, blue, green, or red/mild odor.

Specific Gravity (H2O) <1

PH Neutral PH

#### Fire and Explosion Hazard Data

Flash Point >550° Deg F (open cup method)

Lower Flame Limit N/A

Higher Flame Limit N/A

Extinguishing Media Water fog or spray, foam, dry Powder, carbon  
dioxide CO2

Unusual Fire Hazard None Known

#### Health Hazard Data

Threshold Limit Value None established for this product

Routes of Entry Inhalation? Irritant

Skin? Not likely

Ingestion? Irritant

Health Hazards Irritating to eyes and slightly irritating to skin

Carcinogenicity NTP? No

IRAC monograph? No

OSHA Regulated? No

Over Exposure Effects



# MSDS (Cont.)

## ECO FIX SERVEC

Eye irritation develops immediately upon contact. No other known overexposure effects.

### First Aid Procedures:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes; get medical attention if irritation persists; for skin, rinse with water. If affected by inhalation of dust particles, remove to fresh air. Give oxygen or artificial respiration as needed. If swallowed, do not induce vomiting, drink several glasses of milk or water, get medical attention.

### Reactivity Data

Chemical Stability	Stable
Conditions to Avoid	None Known
Incompatible Materials	Oxidizers or oxidizing materials. Avoid prolonged exposure to highly concentrated acids or bases.
Decomposition Products	From fire, smoke, carbon dioxide, and carbon monoxide.
Hazardous Polymerization	Will not occur
Polymerization Avoid	None

### Spill or Leak Procedures

For Spill	In case of spillage, sweep up and place in suitable container.
Waste Disposal Method	Follow State regulations

### Special Protection

Respiratory Protection	Not normally needed for this product. Use NIOSH approved dust mask if needed
Ventilation	Local exhaust
Mechanical Exhaust	Use if needed
Local Exhaust	Recommended
Protective Gloves	Not normally needed. Use to protect pre-existing skin conditions.
Eye Protection	Use Safety glasses or face shield if needed.
Other Protective Equipment	HMS personal protection

### Special Handling

Handling and Storage	Store away from oxidizers or material bearing a yellow DOT Label.
Precautionary Measures	Provide fresh air ventilation during use. Close container after each use. Avoid contact with eyes. After handling this product, wash hands before eating, drinking, or smoking. If needed, take first aid action shown in Section V
Hazard Class	Non-regulated
DOT Shipping Name	DOT non-regulated
Reportable Quantity	None
UN Number	None
NA #	None
Packaging Size	Various